

OZARKS TECHNICAL COMMUNITY COLLEGE

otc.edu



2015–2016 ACADEMIC CATALOG

Every effort has been made to make this publication accurate. However all policies, procedures, tuition and fees, and curricula are subject to change. Please refer to otc.edu for the most current information. This is not intended to be a contract explicit or implied, and the college reserves the right to make changes to the information contained herein.

MESSAGE FROM THE CHANCELLOR



Welcome to Ozarks Technical Community College.

Since opening its doors a quarter century ago, Ozarks Technical Community College has been an integral part of the success of thousands within our community. Now 25 years later, we are the third-largest community college in Missouri with five locations and a robust online program. Every year we fulfill our mission by helping thousands of students achieve their educational goals and prepare for today's competitive job market.

OTC meets the needs of its students through technical education, academic instruction and workforce development opportunities. The accessibility and affordability of our programs will continue to transform lives and strengthen the communities we serve.

Please take a few moments to review the courses offered this year, which focus on professional and personal development, as well as hands-on training and opportunities for academic growth. If you would like additional information on any of our college-credit programs, workforce development options, or a high school equivalency certificate, please visit us at otc.edu or stop by one of our campuses or centers.

Thank you for continuing your educational journey with Ozarks Technical Community College. I look forward to seeing what the next 25 years will bring to our college and community.

Non-Discrimination Statement

Ozarks Technical Community College prohibits discrimination and harassment and provides equal opportunities in its admissions, educational programs, activities, and employment regardless of race, color, religion, gender, national origin, age, marital status, sexual orientation, political affiliation, veteran status, and disabilities that include HIV and AIDS, and medical conditions. Bona fide occupational qualifications will be allowed in those instances where age, gender, or physical requirements apply to the appropriate and efficient administration of the position.

Any person having inquiries concerning Ozarks Technical Community College compliance with the regulations implementing Title VI and Title IX is directed to contact:

For Employment Inquiries

College Director of Human Resources
1001 E. Chestnut Expressway
Springfield, Missouri 65802
(417) 447-2631

For Student Inquiries

Assistant Dean of Disability Support Services
1001 E. Chestnut Expressway
Springfield, Missouri 65802
(417) 447-8188

Sincerely,

A handwritten signature in black ink that reads "Hal L. Higdon". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Hal L. Higdon, Ph.D.

Chancellor

ADMINISTRATION & BOARD OF TRUSTEES

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WORKFORCE DEVELOPMENT
Mr. Tim Baltes



CHIEF OF STAFF
Ms. Stephanie Sumners



COLLEGE DIRECTOR OF
COMMUNICATIONS & MARKETING
Mr. Mark Miller

BOARD OF TRUSTEES

The Board of Trustees of Ozarks Technical Community College consists of six members elected from the district at large. Members are elected for terms of six years, with two members being elected in each even-numbered year.

Bottom Row: Chip Sheppard, Vice President; Jennifer Kennally, Member; J. Howard Fisk, Secretary

Top Row: Jeff Layman, Member; Greg DeLong, President; Larry Snyder, Treasurer



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GENERAL INFORMATION

ACADEMIC CALENDAR

Please check the OTC website otc.edu for the most current academic calendar.

ACCREDITATION

OTC is accredited by the Higher Learning Commission, a Commission of the North Central Association located at 30 North LaSalle Street, Suite 2400, Chicago, Illinois 60602-2504, 800-621-7440.

Programs in the College are also recognized and/or accredited by:

- Accreditation Commission for Education in Nursing (ACEN)
- Accreditation Council for Occupational Therapy Education (ACOTE)
- Accreditation Review Committee on Education in Surgical Technology (ARC-ST)
- American Culinary Federation Education Foundation, Inc. Accrediting Commission (ACFEFAC)
- American Health Information Management Association (AHIMA)
- American Welding Society (AWS)
- Associated General Contractors (AGC)
- Automotive Standards of Excellence/National Automotive Technicians Education Foundation (ASE/NATEF)
- Commission on Accreditation of Allied Health Education Programs (CAAHEP)
- Commission on Accreditation in Physical Therapy Education (CAPTE)
- Commission on Dental Accreditation (COTA), American Dental Association (ADA)
- Committee on Accreditation of Education Programs for the EMS professions (Co AEMSP)
- Committee on Accreditation for Respiratory Care (CoARC)
- HVAC Excellence
- Inter-Industry Conference on Auto Collision Repair
- International Fire Service Accreditation Congress (IFSAC)
- Missouri Coordinating Board for Higher Education (CBHE)
- Missouri Department of Health Bureau of Emergency Medical Services
- Missouri State Board of Nursing (MSBN)
- Missouri State Department of Elementary and Secondary Education (DESE)
- National Accrediting Agency for Clinical Lab Sciences (NAACLS)
- Professional Landcare Network (PLANET)

COLLEGE HISTORY

Ozarks Technical Community College celebrates its 25th anniversary in 2015 to commemorate a critical step voters took in April 3, 1990, to approve the establishment of a community technical college. From then, the college expanded to six locations over the next 23 years, marked most recently with the opening of the OTC Table Rock Campus and the OTC Waynesville Center in 2013.

As a result of the vote in 1990, OTC became the region's comprehensive community college and provided an open admission, two-year college with a focus on technical education. Citizens could earn a one-year certificate, two-year associate of applied science degree (A.A.S.), or an associate of arts degree (A.A.). Word spread quickly of OTC's commitment to small class sizes, its professional faculty and staff, diverse curriculum and focus on quality.

In September 1991, with 1,198 college credit students, OTC opened its doors at Cox Medical Center North and at 815 N. Sherman in Lincoln Hall and Graff Hall, facilities that formerly housed the Graff Area Vocational Technical Center. These two buildings became the cornerstone of the campus.

In 1996, OTC received accreditation from the Higher Learning Commission of the North Central Association of Colleges and Schools.

OTC's potential to meet the job-training needs of the area became apparent. New programs were developed and existing programs continually revised with guidance and input from the members of the 41 programs' advisory committees, made up of residents along with business and industry leaders. Since 1991, more than 200,000 citizens of southwest Missouri have taken advantage of one or more of the college's educational services.

Enrollment grew at an annual compound rate of 11.4 percent between 1991 and 2014. Not only did enrollment soar, but quality education continued to prevail. In February 2001, OTC was given a 10-year reaccreditation from the North Central Association.

With this growth rate, the campus expanded to accommodate the demand for facilities. The Norman K. Myers Technical Education Center opened in the summer of 1997, the Information Commons in the summer of 1998, the Information Commons East in the summer of 1999, and the Industry and Transportation Technology Center in 2000. Renovation of historic Lincoln Hall was completed in 2001, after the building was placed on the National Register of Historic Places in May 2000. A plaque recognizing the building's placement on the National Register, honoring it as the first Julius Rosenwald School in Missouri was unveiled in August 2004. The Information Commons West opened in 2002. The newly renovated Graff Hall reopened in the fall of 2003. The pedestrian mall was funded by a state grant and the fountain was made possible by a gift from John Q. Hammons.

The first classes were held at the OTC Richwood Valley Campus in the spring 2007 semester. Named for the historic area where the campus now stands, the Richwood Valley campus is located on Highway 14 between the cities of Ozark and Nixa.

The college's growth continued in the fall of 2007, when its fine arts programs moved to the third floor of the Jim D. Morris Building, in the Gillioz Theatre complex in downtown Springfield. Later that fall, the Center for Workforce Development expanded into a new location just west of the OTC Springfield Campus. In 2008, the OTC Waynesville Center moved to a new 10,300 square foot facility in the Townfield Plaza Center, and OTC assumed the operation of the Licensed Practical Nursing program at Gibson Technical Center in Reeds Spring.

In February of 2011, the North Central Association granted OTC another 10-year reaccreditation. That summer, OTC became the Ozarks Technical Community College system, a transition that put the institution in a better position for future growth and expansion plans.

In the fall of 2011, the OTC Lebanon Center moved into new facilities donated to the college by Reuben and Mary Lou Casey.

In the fall of 2013, the OTC Waynesville Center moved to a larger location along Interstate 44. The OTC Table Rock Campus celebrated its grand opening in Hollister on Highway 165.

THE COLLEGE TODAY

In addition to its college credit component, OTC provides area citizens with a variety of educational options:

- Adult Education and Literacy is available to adults working toward the High School Equivalency (HSE) Test in a variety of locations throughout the Ozarks.
- Non-credit personal and professional enrichment courses are offered at local high schools and community centers throughout the Ozarks.
- Specific training can be custom designed for businesses and industries at the work site.
- English as a Second Language classes are available throughout the year.

OTC's comprehensive mission, focus on job-skill training, and college transfer preparation has made it a vital part of one of the fastest growing areas in the state of Missouri. OTC looks to a promising and productive future as faculty, staff, and community members work together to provide the best educational value for all residents of the Ozarks.

OTC SPRINGFIELD CAMPUS

The college operates in Springfield at the 40-acre campus at the corner of Chestnut Expressway and National Avenue.

- The Norman K. Myers Technical Education Center houses classrooms, electronic media labs and science labs.
- The Information Commons houses the college's business office, administrative offices and the library.
- The Information Commons East provides more classrooms, faculty and administrative offices, and the OTC Career Center office.
- The Information Commons West houses the culinary arts and hospitality programs, student services facilities, and Cafe 101.
- The Industry Transportation and Technology Center provides the latest technology and laboratory facilities for many of the technical degree programs.
- The Allied Health programs are located in historic Lincoln Hall along with additional technical program labs.
- Graff Hall houses the Networking and Computer Services department, Information Technology, Fire Science, and Business/Marketing programs and computer labs, along with the Adult Education and Literacy programs.
- The Center for Workforce Development is located at 614 N. Washington Ave. and 800 E. Central St.
- The campus also offers a preschool in the Lewis Family Early Childhood Education Center located at 936 N. Hampton.

OTC RICHWOOD VALLEY CAMPUS

The OTC Richwood Valley Campus is located in Christian County on Highway 14 between Ozark and Nixa.

- The Life Science Technology Center houses a variety of general education classrooms, computer and science labs, and faculty offices.
- The campus offers several associate degree or transfer degree options, hybrid courses, as well as the Medical Lab Technology and Physical Therapist Assistant programs. Non-credit offerings include AEL and High School Equivalency (HSE) programs.
- As a result of collaborative partnerships with area universities, students may also obtain bachelor degrees from Drury University and advanced degrees from Lindenwood University through evening classes at the OTC Richwood Valley campus.
- Student amenities include a student services facility, a library, an academic support center, an open computer lab and a café.

GENERAL INFORMATION

- Facilities available to the community include meeting rooms, a FEMA tornado shelter and a 1.5 mile walking trail.

OTC TABLE ROCK CAMPUS

The OTC Table Rock Campus is located in Hollister at 10698 Historic Highway 165. The campus opened in the fall of 2013.

- The four-story Robert W. Plaster Free Enterprise Center houses a variety of classrooms, labs and offices.
- The campus offers the Associate of Arts, Associate of Arts in Teaching, and Licensed Practical Nursing programs, as well as a variety of general education classes.
- Non-credit offerings include AEL and High School Equivalency preparation programs.
- Future growth plans include additional programs designed with area industries in mind.
- The fourth floor is available to the community for meeting space.

OTC CENTERS

Students have the option of meeting many of their educational needs by attending one of the OTC Centers in Lebanon or Waynesville. These centers offer a wide range of general, technical, and select workforce development courses.

- The OTC Lebanon Center is located on MM Highway off of I-44 at 22360 Highway MM, (417) 447-8932 or (417) 532-5044.
- The OTC Waynesville Center is located at 600 GW Lane Street in Waynesville, (573) 774-5061. The 28,560-sq.-ft. facility is visible from Interstate 44, alongside the Waynesville Career Center and Waynesville High School.

OTC ONLINE

OTC Online is your online community college. Through OTC Online, Ozarks Technical Community College offers a wide variety of online and hybrid courses designed for busy learners who cannot attend face-to-face (traditional) classes or who simply prefer to learn in an online environment. Students may earn the following certificates and degrees online:

- Associate of Arts (A.A.)
- Associate of Arts in Business (A.A.B.)
- Associate of Applied Science (A.A.S.) in Accounting
- Associate of Applied Science (A.A.S.) in Business and Marketing

- Associate of Applied Science (A.A.S.) in Business Technology
- Certificate in Business and Marketing
- Certificate in Business Technology
- Associate of Arts in Teaching (A.A.T.)*

* **Exception:** This degree is fully online with the exception of EDU-210, which is offered as a face-to-face or hybrid course..

Students may also earn the following degrees in a hybrid format:

- Associate of Science (A.S.) in Biological Clinical Science
- Associate of Applied Science (A.A.S.) in Dental Assisting

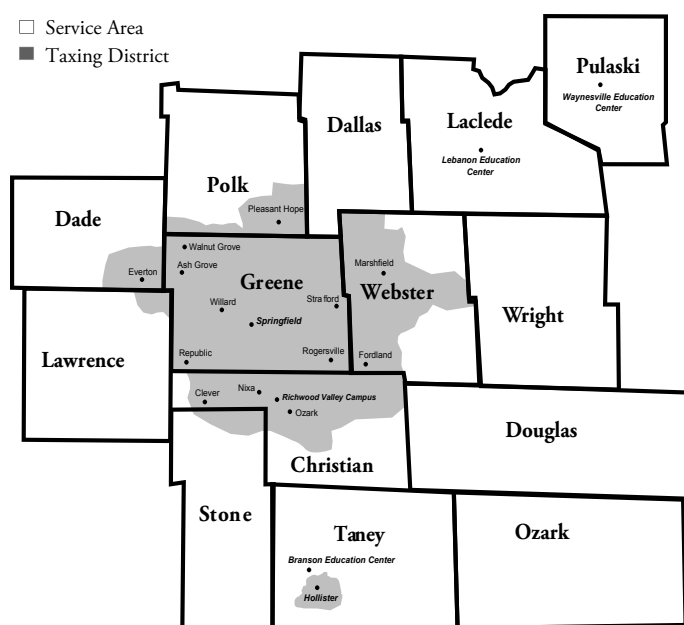
Online and hybrid courses include the same content as face-to-face courses, offer the same level of academic quality, and provide interactive and collaborative learning processes. For more information about OTC Online courses or programs, please choose from the following options:

- Visit the OTC Online website at online.otc.edu.
- E-mail online@otc.edu.
- Call (417) 447-8200.

COLLEGE DISTRICT

The Ozarks Technical Community College district encompasses the fifteen school districts shown below.

Ash Grove R-IV	Ozark R-VI
Clever R-V	Pleasant Hope R-VI
Everton R-III	Republic R-III
Fordland R-VII	Springfield R-XII
Hollister R-V	Strafford R-VI
Logan-Rogersville R-VIII	Walnut Grove R-V
Marshfield R-I	Willard R-II
Nixa R-II	



MISSION

The College mission is to provide accessible, high quality, and affordable learning opportunities that transform lives and strengthen the communities we serve.

VISION

The College vision is to serve our communities by expanding opportunities for personal and professional growth through our commitment to excellence and innovation.

CORE VALUES

Quality	Opportunity
Accessibility	Learning
Community	Innovation
Diversity	Respect
Integrity	Personal Growth

PURPOSE

OTC fulfills its mission through the following programs and services:

- **Technical Education Programs.** Provide certificate, associate degree and shorter programs which enable students to pursue a career or advance their education.
- **General Education.** Provide courses which lead to accomplishment of certificates, A.A.S. and A.A. degrees.
- **Developmental Education.** Provide courses which develop basic skills in areas such as adult literacy, mathematics and study skills.
- **Center for Workforce Development.** Provide training to address specific needs of business and industry and further economic development in the region.
- **Community Enrichment.** Provide a variety of non-credit courses and lifelong learning opportunities, which are responsive to the needs of the region.
- **Student Services.** Provide services to assist students in fulfilling their educational goals including orientation, assessment, advisement, financial aid, personal and career counseling, career employment opportunities, accommodation services for students with disabilities, and a library.

Adopted: November 1, 1990. Revised: August 11, 2008.

PHILOSOPHY OF EDUCATION

Ozarks Technical Community College's general education philosophy reflects the belief in a core of learning experiences common to first- and second-year college students. The core curriculum provides an established body of knowledge that allows students to become productive, contributing, informed members of society.

The college is responsible for helping students gain an understanding of themselves, their global community and the physical universe. The college provides an environment where students can learn effective communication and critical thinking skills while developing the foundation necessary to become life-long learners.

The college's mission recognizes its obligation to provide learning experiences that are specialized in order to meet the needs of the community. The career and technical programs are complemented by the established body of knowledge in the core curriculum necessary in the workplace, the community and in life.

ASSESSMENT

Consistent with the Ozarks Technical Community College mission and purpose of promoting student learning through accessible, high quality, affordable workforce training and technical and general education that is responsive to the needs of the community and its diverse constituencies, the college has implemented on-going assessment activities that provide the feedback needed to plan, improve quality, and allocate necessary resources to the various programs and services the college offers. This process begins at the course level or service level and is utilized to evaluate institutional effectiveness and determine how well the college is supporting its mission. The systematic and continuous process of assessment monitors learning and services over time to determine if the institution's goals are met and the areas that need improvement are identified. The process involves the use of a variety of measurement tools that have been selected or created based on the college's mission and specific learning outcomes. The purpose of the assessment process at Ozarks Technical Community College is to provide the feedback and data needed to do the following:

- Improve student learning and teaching effectiveness,
- Improve and revise curriculum,
- Improve the quality of programs and the process of program planning,
- Allocate necessary resources needed for effective planning and budgeting,
- Effectively assist students in making course and career selections, and
- Demonstrate accountability to internal and external constituencies.

The assessment process at the college is designed to support the mission through the process of measuring and evaluating institution, division, program, department and course effectiveness. Assessment at these various levels allows the college to capitalize on strengths, identify areas where opportunities for enhancement exist, and implement changes and improvements in order to maximize student academic achievement, personal development, and the quality of the academic programs and services offered by the college.

Ozarks Technical Community College accepts as its institutional responsibility the necessity to demonstrate that students are learning and are meeting the goals and expectations set forth at the course, program or department, division, and institutional level. The data generated through campus-wide assessment processes then becomes the basis for collaborative decision making at many levels within the institution. Providing evidence to all stakeholders that students are successfully achieving the academic goals that have been established is an important component of the assessment process.

DRUG-FREE STATEMENT

OTC prohibits the unlawful possession, use, distribution and sale of alcohol and illicit drugs by OTC students and employees on college-owned or -controlled property and at events sponsored by OTC. In observance of state law, no person under the age of twenty-one (21) may purchase or attempt to purchase, or have in his or her possession, any alcoholic or intoxicating beverage on the college premises or at college sponsored events. OTC complies with all laws related to underage drinking, and any violation of the state's underage drinking laws will be referred to the appropriate authorities. Further, the Standards of Conduct for both students and employees, regardless of age, prohibit the possession of alcohol and illicit drugs and/or being present on college owned or controlled property while under the influence of such. Resources for treatment referrals are available in the Counseling Services office. Further information concerning OTC's drug and alcohol prevention program may be found in the Student Handbook section of this publication.

TOBACCO-FREE POLICY

Ozarks Technical Community College is committed to providing its students and employees a safe and healthy environment. In view of this commitment, the college is a tobacco-free institution. No consumption of tobacco or use of e-cigarettes will be allowed on any college property or in any college facility. The institution will display notice of the Tobacco-Free policy at all college locations.

For more information regarding the Tobacco-Free Campus policy you may visit the OTC website. Thank you for your cooperation in helping to make our campus cleaner and our lives healthier!

INFECTIOUS AND CONTAGIOUS DISEASES

Students of Ozarks Technical Community College who may become infected with any type of contagious disease, such as AIDS, H1N1, SARS, Hepatitis, among others, will not be excluded from enrollment or employment, or restricted in their access to college services or facilities unless otherwise medically indicated or required by law. The college complies with Section 504 of the Rehabilitation Act of 1973 and with the Americans with Disabilities Act, and makes every effort to ensure that persons with disabilities admitted to the college as students are afforded all of the rights and privileges provided to them by this act.

Persons who know or suspect that they are infected are expected to seek expert advice about their health circumstances and are obligated ethically and legally to conduct themselves responsibly in accordance with such knowledge for the protection of others. Additionally, those who know they are infected are urged to share that information with the appropriate administrator so the college can respond appropriately.

to their needs. Such information will be disclosed to responsible college officials only on a strictly limited need-to-know basis unless the individual consents in writing to other releases of the information. The college will respond on an individual, case-by-case basis to shared information. The college's response will take into consideration the expressed desires and opinions of the person who is infected, the recommendations of the individual's physician, and the college's commitment to the protection, to the extent possible, of both the public health and the individual's rights. The response will include recommendations for reasonable accommodations and/or restrictions.

INCLEMENT WEATHER PROCEDURE

In the event the college must close or classes be cancelled due to inclement weather, a notice will be placed on the OTC website and all local radio and TV stations will be notified. Additionally, the college implemented a system which notifies via text message all students who provide a cell phone number. Students are reminded to use their own judgment, as adults, concerning the safety of traveling to classes.

EMERGENCY PLAN

The college has posted emergency plans throughout its facilities and also on the OTC website, otc.edu. Further information concerning emergency plans and procedures is included in the Student Handbook section of this publication.

ACADEMIC INTEGRITY

The college experience is founded on the concepts of honesty and integrity. Dishonesty, cheating, stealing, plagiarism, or knowingly furnishing false information to the college are regarded as particularly serious offenses. Within the respective curricular divisions of OTC, faculty members handle cases of dishonesty in their classes by levying certain penalties. However, in flagrant cases, the penalty may be dismissal from the college after proper due process proceedings. See the Student Handbook section of this publication for more detailed information.

STUDENT RIGHTS/RESPONSIBILITIES

Each Ozarks Technical Community College student's conduct should be in such a manner as to uphold the good name of the college and fellow students by full recognition of responsibilities under the law and the moral and social standards of the community, state and nation. Students are responsible for knowledge of college rules and regulations as set forth in the Student Handbook section of this publication.

SEXUAL MISCONDUCT STATEMENT

Ozarks Technical Community College is committed to providing a learning and working environment that promotes personal integrity, civility, and mutual respect in an environment free of discrimination on the basis of sex. The college considers sex discrimination in all its forms to be a serious offense. Sex discrimination constitutes a violation of college policy, is unacceptable, and will not be tolerated.

Sexual harassment, whether verbal, physical, visual or digital is a form of prohibited sex discrimination. OTC's Sexual Misconduct policy is currently under review to ensure compliance with the most recent Department of Education requirements. The current policy may be found at otc.edu/policies/27542.php. The specific definitions of sexual harassment and sexual violence, options for reporting instances of sexual misconduct, and available resources may be found in the Student Handbook section of this publication.

ENROLLMENT SERVICES

ADMISSIONS POLICY

Ozarks Technical Community College has an open admissions policy in keeping with its open door, full-service community college philosophy. While admission to the college is not based on minimum academic qualifications, skill building may be required prior to enrollment in credit classes, and particular programs have required standards for admission.

Individuals are eligible for admission to OTC if they are high school graduates or the equivalent (GED/HSE), or if they are sixteen years of age or older and able to benefit from a program at the college.

Assessment of skill level is mandatory for all new students to OTC. Placement testing may be required as part of that assessment. Students must demonstrate necessary skills in reading, writing and mathematics before registering for classes that require proficiency in these skills. This may be accomplished in one of the following ways:

- Take the COMPASS placement exam at OTC, free of charge.
- Submit current (no more than two years old) ACT scores.
- Present evidence of math and/or English credit earned at another accredited college.

To determine if placement tests are required, contact Student Services for information on the placement testing policy. Students should take placement tests prior to the beginning of the term in which they plan to start classes. An Application for Admission should be on file before taking the tests. Students with learning or physical disabilities may request accommodation when making plans to take the placement tests.

Students entering OTC with academic deficiencies or low scores on required placement tests may be required to enroll in remedial, developmental, basic studies or other programs designated by the college.

Before registering for courses, students must be admitted to the college. Students may apply for admission at any time during the year and applications and credentials may be submitted as early as one year in advance of the first semester of enrollment. Applicants should contact Student Services, (417) 447-6900, for specific information.

SELECTIVE ADMISSIONS PROGRAMS

Certain programs and courses established a standards of admission to assure students have the necessary aptitude and background for success. Students applying for a program with selective admissions criteria (Dental Assisting, Dental Hygiene, EMT–Basic, Intermediate or Paramedic, Medical Laboratory Technician, Practical and Registered Nursing, Respiratory Therapy, Physical Therapist Assistant, Surgical Technology, Hearing Instrument Science and Occupational Therapy Assistant, for example) may be required to take additional tests for admissions purposes and/or meet certain requirements to continue in the program. Contact the

department or an academic advisor in Student Services for program-specific information.

ADMISSIONS CATEGORIES

First Time Freshman

A student shall be admitted upon proof of graduation from an accredited high school (official transcript sent from the high school to OTC) or upon submission of an official High School Equivalency (GED/HSE) Certificate. The ACT or COMPASS test will be required. The COMPASS is a placement test consisting of three sections (reading, writing and numerical skills) to determine whether the student is ready to take college level math and English. Skill building may be required prior to taking credit classes.

College Transfer

Admission as a college transfer student to degree programs requires official copies of transcripts from all higher education institutions previously attended (sent from each college to OTC). If a student is on academic probation or suspension from another college or university, he/she needs to visit with an advisor at that institution regarding the appropriate classes to take at OTC. The ACT or COMPASS test may be required if the student has not completed the equivalent of OTC mathematics and English requirements.

Readmitting Students

Former OTC students who have not attended for a semester or more may re-activate their file by completing a new Application for Admission. It is also necessary that transcripts of all college work not currently on file with OTC be sent to the Admissions office.

A student applying for readmission is required to meet the curriculum requirements in effect at the time of re-admission unless waived by the Vice Chancellor for Academic Affairs.

OTC reserves the right to refuse readmission to a former student who has unsettled financial obligations with the college.

Visiting Students/Concurrent College Enrollment

If a student is enrolled at another college/university and desires concurrent enrollment at OTC, that student must complete an OTC admissions application. Visiting students are responsible for ensuring they meet all prerequisites for the classes in which they enroll and for confirming the classes will transfer back to their home institution.

International Students

International students who wish to enroll at OTC need to contact Student Services for more information.

The following items are required for international student admission:

- International Student Application for Admission
- Processing Fee

- Academic Transcripts
- Financial Sponsor Letter
- Bank Statement
- Tuition Deposit
- English Proficiency
- SEVIS Fee
- IPO Approved Medical Insurance
- Immunization Requirement prior to enrollment
- Placement Testing

For complete details and instructions, please visit otc.edu, keyword international student, or contact the International Program office at (417) 447-6941.

Individual Approval Students

A student eighteen (18) years of age or older who has not graduated from an accredited high school or completed a GED/High School Equivalency Certificate may be admitted by individual approval of an OTC admissions official for one semester only. The student must complete the High School Equivalency Certificate during this semester or receive permission from an OTC admissions official to continue college course(s). Permission will include verification of participation in an accredited High School Equivalency preparation program. OTC offers a program through the Adult Education and Literacy office which helps prepare students for the High School Equivalency Certificate exam. This office is currently located at OTC's Graff Hall and can be reached at (417) 447-8860.

Home School/High Schools Not Accredited by the Higher Learning Commission

Home schooled, non-accredited or correspondence high school students shall be admitted to OTC upon meeting the following criteria:

1. Submission of a transcript of all high school work which indicates specific grades, graduation date and meets state law requirements;
2. Meets the age of compulsory attendance for the state of Missouri, which is 17 years old;
3. Requires the student to complete coursework intended to be college preparatory.
4. Students seeking admission to any Allied Health program under this category must submit a High School Equivalency (GED/HSE) certificate.

High School Student Enrollment Options

Admission and enrollment opportunities for students 16 years of age and older are varied and specific to what each home high school district supports. Currently, there are six high school options, including:

- Career Center
- Middle College
- Health Professions Academy
- Dual Credit
- Early Start
- FAST-Track

Additional information about each of these programs may be located on page 24 under *Academic Information*. Enrollment in high school programs is limited and selective. Students who would like to be considered for admission are encouraged to see their high school counselor to review specific criteria and program options supported by their district. Each program requires a parent or guardian's signature of approval to participate, as well as permission from the home high school administration team. Specific programs require a parent/guardian release form to enroll. Home school students may participate in eligible programs based on the school district where the student resides. Interested students must fill out an OTC application and submit copies of the student's educational record, including grades, attendance, and, when applicable, the IEP and 504 Plan. Additional information may be located online at www.otc.edu/highschool or by calling the High School Office at (417) 447-6997.

CONFIDENTIALITY OF STUDENT RECORDS

The college complies with the Family Educational Rights and Privacy Act (FERPA) which affords you certain rights with respect to your education records. Please read below and address questions to the Registrar's office.

The Family Educational Rights and Privacy Act of 1974 (FERPA) was enacted to protect student privacy and to provide for the right to inspect and review education records. In compliance with FERPA and with Board Policy 4.02, Ozarks Technical Community College has established the following with respect to students' education records:

1. Students are guaranteed the right to inspect and review their education records. A student should submit a written request to OTC's Registrar that identifies the record the student wishes to inspect or review. The Registrar will make arrangements for access to the record and notify the student of the time and location where the record may be inspected within 45 days of receiving the request.
2. Students have the right to seek amendment of education records that they believe to be inaccurate or misleading. A student should submit a written request to OTC's Registrar that identifies the part of the record the student wishes to have changed, and the reason the student believes the record is inaccurate or misleading. If the request is not granted the student has a right to a hearing regarding the request for amendment.
3. Students are guaranteed the right have some control over the disclosure of information from their education records. Personally identifiable information contained in the student's education records is not released, except to the extent that FERPA authorizes disclosure without consent.
4. Basic directory information is identified by OTC and made available upon request. Directory information is information contained in an education record of a student that would not generally be considered harmful or an invasion of privacy if disclosed. It includes, (1) student's name; (2) mailing address; (3) major field of study; (4) academic classification (freshman, sophomore and enrollment status- part-time or full-time); (5) participation in recognized activities, including photographs of sponsored activities; (6) dates of attendance (including matriculation and withdrawal dates); (7) degrees, certificates and awards received, including academic honors, departmental honors and membership in honor societies; and (8) inclusion of an individual in a group photo. Further, OTC may release lists of students who qualify for academic honors, as well as lists of graduates to newspapers which cover the permanent address of record.

5. Any student who wishes to restrict the release of his/her directory information must file written notification to this effect with the Office of the Registrar.
6. Certain exception to the release of information exist when the disclosure of information from an education record is disclosed to school officials with legitimate educational interest, to other schools to which a student is transferring, to specified officials for audit or evaluation purposes, to appropriate parties in connection with financial aid to a student, to organizations conducting certain studies for or on behalf of the school, to accrediting organizations, to comply with a judicial order or lawfully issued subpoena, to appropriate officials in cases of health and safety emergencies, or in other circumstances allowed by FERPA.
7. Students have the right to file a complaint with the Family Policy Compliance Office, U.S. Department of Education, 400 Maryland Avenue, SW, Washington, D.C. 20202-5920 which handles FERPA complaints. For additional information contact the OTC Registrar's office at registrar@otc.edu.

RESIDENCY CLASSIFICATION FOR STUDENTS

For tuition purposes, your residency status is determined at the time of admission to the college. Questions regarding initial residency classification should be directed to Student Services. It is the responsibility of each student to pay fees and tuition due the college according to the student's initial residency classification. If a student believes their residency classification should be changed after initial enrollment, a Petition for a Change of Residency Classification form is available in the Student Services area of each OTC campus and center. All petitions must be submitted prior to the first day of classes or the tuition adjustment may not go into effect until the following term of enrollment. Reclassification of residency is not retroactive to any prior terms of enrollment.

EVALUATION OF TRANSFER CREDIT

Applicants for admission, who have attended other colleges or universities, are responsible for having an official transcript from each institution submitted directly to the Admissions office. OTC will consider credit from institutions accredited by an agency recognized by the U.S. Department of Education, in addition to accepting all credit from regionally accredited institutions. Questions concerning acceptance of college credit shall be directed to the Registrar.

AUDITING A COURSE

Students may enroll on an audit basis at the time of registration or addition of a course. This decision cannot be made or reversed after the

first week of classes. Requirements for receiving an audit grade (AU) will be determined by the instructor.

CHANGE OF SCHEDULE

Students are allowed to make add/drop adjustments to their course schedule for a period of time during the beginning of each term. Please refer to course schedule and college calendar for deadlines. Please refer questions to Student Services at any OTC campus or center or visit the OTC website for detailed procedures.

WITHDRAWAL FROM ALL CLASSES

If a student wishes to discontinue enrollment in all courses for a semester, it is necessary to officially withdraw from the term. The last day to withdraw from classes is published on the college calendar. Please refer questions to Student Services at any OTC campus or center or visit the OTC website for detailed procedures.

TRANSCRIPT SERVICES

Official transcripts of grades and credits earned at OTC are issued by the Registrar's office. Requests for academic transcripts may be made at any OTC location. The mailing address is Office of the Registrar, OTC, 1001 E. Chestnut Expressway, Springfield, MO 65802. The phone number is (417) 447-6900.

Transcripts may be requested in person or by writing directly to the Registrar's office. Written requests should include semester and last year of attendance, name under which you were enrolled, and student identification number or Social Security number. Also include the complete address of where the transcript is to be mailed. Information on requesting transcripts and a copy of the transcript request form can be found on the Registration and Records page of the OTC website.

DEGREE AUDITS

Students may access a degree audit via AccessOTC, or request an unofficial degree audit from Student Services in the Information Commons West of the OTC Springfield campus.

TUITION

	Tier I	Tier II	Tier III
In-District Tuition	\$95.00	\$98.00	\$101.00
Out-of-District Tuition	\$142.50	\$145.50	\$148.50
Out-of-State Tuition	\$190.00	\$193.00	\$196.00

Note: Tuition costs are per credit hour. Information on Tier Courses can be found at otc.edu/financialservices/finance-tuition.php

Note: Current as of January 1, 2015. All tuition and fees are subject to change. Please visit the OTC website for current tuition and fees.

FEES

General Fees

Student Fee (per credit hour)	\$15.00
Student Technology Fee (per credit hour)	\$6.00
Online Course Fee (per course)	\$65.00
Facilities and Infrastructure Fees - (per semester, fall/spring)	\$45.00
Facilities and Infrastructure Fees (summer)	\$25.00
Late Registration	\$35.00
Course Schedule Change (per transaction after classes begin)	\$10.00
Credit by Exam	\$40.00
Allied Health Program Application	\$15.00
Dual Credit Tuition (per credit hour)	\$35.00
International Student Application Fee	\$75.00
International Student Fee (per credit hour)	\$20.00
Payment Plan Fee	\$35.00
NSF Returned Item Fee	\$30.00
Diploma Replacement Fee	\$25.00
Student I.D. Card Replacement Fee	\$25.00

Laboratory Course Fees (per course fee)

Art Laboratory Courses	\$60.00
Ceramics Laboratory Courses	\$100.00
Construction Technology Laboratory Courses	\$100.00
Culinary Arts Laboratory Courses	\$150.00
Electronics & Computer Repair Laboratory Courses	\$75.00
Fire Science Laboratory Courses	\$90.00
Manufacturing Laboratory Courses	\$75.00
Master Welder Program Fees	\$1605.00
Science Laboratory Courses	\$85.00
Teacher Education Courses	\$25.00
Technology Laboratory Courses	\$60.00
Transportation Laboratory Courses	\$100.00
Welding Laboratory Courses	\$160.00

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Allied Health Programs Laboratory Courses

Associate of Science in Nursing (RN) Program Fees	\$1865.00
Dental Assisting Program Fees	\$1370.00
Dental Hygiene Program Fees	\$4155.00
EMT - Paramedic Program Fees	\$1235.00
Health Information Technology Program Fees	\$ 260.00
Hearing Instrument Science Program Fees	\$1270.00
Medical Laboratory Technician Program Fees	\$1220.00
Occupational Therapy Assistant Program Fees	\$1450.00
Physical Therapist Assistant Program Fees	\$1650.00
Practical Nursing Program Fees	\$1140.00
Respiratory Therapy Program Fees	\$1870.00
Surgical Technology Program Fees	\$ 727.00

Note: Current as of January 1, 2015. All tuition and fees are subject to change. Please visit the OTC website for current tuition and fees.

TUITION POLICY

By registering for classes, each student accepts financial responsibility for payment of all tuition and fees due to the college. Every student must make tuition payment arrangements by the appropriate payment deadline posted at otc.edu/financialservices/finance-tuition-payment.php

REFUND POLICY

To obtain a tuition refund, students must complete an official withdrawal form. The forms are available in the Student Services office or online. Students must submit the completed form to Student Services by the appropriate published deadlines to be eligible for any refund. A withdrawal form is not considered official until it has been received and processed in Student Services. The following list provides additional information regarding refunds:

- Class section cancellations initiated by the college will result in a 100% refund of all associated tuition and fees to the student.
- Refunds include paid tuition and course-specific fees only. All other fees are not refundable.
- For courses operating on a different schedule than the regular fall/spring semester (summer, block, intersession, etc.), deadlines and refunds will be prorated. All procedures for schedule change or withdrawal apply.
- All refunds will be disbursed only to the student.
- Refunds created during the semester will be disbursed to the student within 30 days of refund date. Refunds created prior to the first

day of classes will be disbursed to the student 30 days after the semester begins.

- Failure to attend class/es does not constitute a schedule change or withdrawal and does not entitle the student to a refund.
- In the case of national emergency, any student called to active duty during the course of a semester shall be entitled to a withdrawal from all courses at 100% refund. A student must present a copy of the order to active duty to be eligible.
- Refund policies and procedures for Workforce Development courses vary. See otc.edu/workforce for details.

Refunds for Withdrawal From All Classes

A student who withdraws (drops all classes) may be eligible for a refund. Semester refund schedules are posted at otc.edu/financialservices/finance-refunds-appeals.php

A student who receives federal financial aid may be required to repay some or all of the financial aid, if the student withdraws from all classes. Please check with the Financial Aid Office for information.

Refunds for Schedule Changes (After First Day of Semester)

If a student-initiated schedule change reduces the total amount of tuition and course-specific fees, the student may be eligible for a refund. Semester refund schedules are posted at otc.edu/financialservices/finance-refunds-appeals.php

Dropping classes could result in a repayment obligation of federal financial aid. Please check with the Financial Aid Office for information.

FEE APPEALS

Students shall have the opportunity to seek an appeal, in writing, contesting or petitioning any outstanding balance due to OTC. Petition For Fee Appeal form is available at Cashier Services, second floor, Information Commons building and online at otc.edu/currentstudents/finance-refunds-appeals.php. Once an appeal has been submitted, the Coordinator of Cashier Services will review the appeal situation and the documentation provided. Any individual who fails to appeal, in writing, within the thirty-day timeframe, by default waives all rights to appeal.

Procedure

The student must complete and submit a Petition For Fee Appeal form and all pertinent written documentation to Cashier Services within 30 days following the end of the term. In cases of incapacitation, exceptions may be made on a case-by-case basis.

Each written appeal must be dated and include the student's name, I.D. number, signature, statement describing specifically what is being requested and for what term, statement of any extenuating circumstances and why the request should be honored.

Failure to attend class or incomplete course withdrawal does not constitute grounds for appeal.

Failure to complete registration transaction with AccessOTC will not be grounds for appeal. Students are ultimately responsible to verify that registration transactions are completed. Exceptions must meet one or more of the following criteria to be considered and approved.

1. Written documentation of an illness, accident, injury, or situation which could not be influenced, planned for, or prevented by the student and which subsequently caused a change in the class schedule, thus changing the assessment. This provision specifically excludes conditions or chronic illnesses that remain static and are known to the student at the time of registration. (This applies to student or immediate family only. Immediate family includes spouse, children, parent, step-parent, grandparent, and step-grandparent.)
2. Written documentation of substantiated circumstances involving deadlines where a student has in good faith relied on information provided by a named college official, or the official's interpretations of the text of a college document or publication, and was consequently misled or mistaken about its terms.

Decisions will only address whether an adjustment of fees will be made. Grade assignments and other academic issues are not within the scope of these procedures and should be addressed to the appropriate vice chancellor.

FINANCIAL AID

What is Financial Aid?

Student financial aid is money received from an outside source to assist the student in paying for the costs of higher education. Financial aid is available from the college, state and federal governments, the OTC Foundation and private organizations. International (visa) students and undocumented students are not eligible for federal, state or institutional aid.

Staff members at each OTC location are available to provide information and assistance with financial aid programs.

Please begin the financial aid application process by applying online at fafsa.gov. The Free Application for Federal Student Aid (FAFSA) is processed by the Department of Education and is the first step to determining your eligibility. You must list Ozarks Technical Community College on the FAFSA in order for us to receive your results. The school code for Ozarks Technical Community College is 030830.

Students with the appropriate aid-eligible FAFSA results may use this information to defer the costs of tuition, fees and books at OTC. Tuition, fees and books not fully covered by financial aid must be paid prior to the published deferred payment deadline. Financial aid refunds for students who have financial aid in excess of tuition, fees and books will receive a

refund according to a published schedule each term. More information on the financial aid programs is available on the Financial Aid section of the OTC website.

The process of applying for and receiving financial aid at OTC is continually reviewed and improved to help students. We encourage students who have questions regarding these procedures to contact Student Services or check the website at www.otc.edu for updated information.

Students who want to defer the amount of tuition, fees, and books owed to OTC based upon aid eligibility are required to use the online MyPay MyWay payment process accessible via the OTC homepage otc.edu.

High School Diploma/GED/High School Equivalency Requirement

Students wanting to receive financial assistance at Ozarks Technical Community College must have an official high school transcript or GED/High School Equivalency Certificate on file in the OTC Registrar's office.

Satisfactory Academic Progress

In accordance to Federal Student Aid regulations, Ozarks Technical Community College has established both quantitative and qualitative measures for evaluating the progress of Federal Student Aid recipients. Evaluation of the academic progress of students will occur after each semester.

Students granted an Academic Fresh Start will continue to have all coursework included in calculations for Satisfactory Academic Progress, including coursework dismissed for reasons of Academic Fresh Start.

In order to allow for the appropriate due process, an appeal procedure is included to allow for extenuating circumstances.

PACE (QUANTITATIVE)

Federal Student Aid regulations provide for assistance up to 150% of program length, i.e. there is a maximum timeframe in which Federal Student Aid can be awarded. Students pursuing an associates degree or certificate program may attempt up to a maximum of 150% of the required hours for their program of study. For example, to calculate the 150% limit, if a program requires 62 credit hours to complete it, then $62 \times 1.5 = 93$. So, the student could attempt up to 93 hours in the program of study.

Students must successfully complete two-thirds (67%) of their total credit hours attempted. Credit hours transferred from other colleges and universities will be included in the total credit hours attempted at OTC and will be counted in the credit hours toward the PACE maximum. Students who graduate and/or complete their degree will be considered to have met the PACE maximum. To better explain attempted and completed hours, assume a student enrolls in 12 hours for a semester, the 12 hours is the attempted hours. During the semester, the student drops or fails 6

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hours so the hours completed is 6. Therefore, the completion percentage is 50% (6 divided by 12).

Note: No additional time will be allowed for program of study completion if a student changes majors or programs. All courses in all semesters are counted in the PACE maximum.

All classes with a grade of A, B, C, D, F, W, NA, NB, NC, ND, NP, and I are counted in the PACE calculation, including any classes which are repeated. Participants in the Fresh Start Academic Program will have all credit hours counted in their total hours attempted, including any hours attempted prior to their Fresh Start program.

GRADE POINT AVERAGE (QUALITATIVE)

Unless placed on an academic plan by the college, following a financial aid appeal, students receiving Federal Student Aid must maintain a cumulative grade point average as follows in order to continue to receive Federal Student Aid.

Associate Degrees Hours Attempted	Minimum Cumulative GPA
1–25	1.50
26–40	1.75
41+	2.00

Certificate Programs Hours Attempted	Minimum Cumulative GPA
1–12	1.50
13–20	1.75
21+	2.00

Grades of A, B, C, D, and F are counted when determining a student's cumulative GPA. Grades of I, N, P, AU, NP, S, NA, NB, NC, ND, NP, W, AG, BG, CG, DG, FG, NAG, NBG, NCG, NDG, and NPG are not counted when determining a student's cumulative GPA. Grades for credit hours transferred from other colleges and universities will not be included when determining the cumulative GPA.

New Financial Aid Recipients and Transfer Students

Students who attend OTC without financial aid and then apply for assistance will be required to meet the satisfactory academic progress standards as if they had received Federal Student Aid from the beginning of their attendance at OTC. For Satisfactory Academic Progress purposes, students who transfer to OTC will be eligible for Federal Student Aid during their first semester of attendance and will have their eligibility evaluated at the end of the first semester they receive Federal Student Aid. Students who have already completed an undergraduate degree and apply for financial aid will be considered to have met the PACE maximum. These students will be classified in an over maximum timeframe status

and must submit a financial aid appeal (as designated below) in order to request an extension of Federal Student Aid.

Financial Aid Warning

Students who fail to meet either the PACE or GPA requirements will be placed on Financial Aid Warning in the succeeding academic term. The Financial Aid Warning does not preclude a student from receiving Federal Student Aid.

Financial Aid Probation

Students with a Financial Aid Warning who fail to meet either the PACE or GPA requirement will be placed on Financial Aid Probation in the succeeding academic term. The student is then ineligible for Federal Student Aid. Once a student regains a satisfactory GPA and meets the PACE requirement of 67% completion of the total credit hours attempted, they may regain eligibility for Federal Student Aid. Students who exceed the maximum number of allowable credit hours for their program of study will be placed on Financial Aid Probation in an over PACE maximum status. Students who have completed their degree will be placed on Financial Aid Probation in a graduated status. Both of the aforementioned statuses will deem the student ineligible for Federal Student Aid.

A student may appeal the loss of Federal Student Aid benefits in accordance to college policy.

Conditions for Appeal

Students who lose, or are not eligible, for Federal Student Aid may submit a written appeal for consideration by the college.

An appeal may be submitted due to the following conditions:

Loss of aid following the Financial Aid Warning period and the student is now on Financial Aid Probation.

Loss of aid following graduation and/or completion of a degree.

Loss of aid due to exceeding the maximum number of allowable attempted credit hours (PACE maximum) for the student's program of study.

Appeal Process

The process to appeal the loss of Federal Student Aid benefits will be maintained by the Financial Aid office and communicated to the appropriate students at the end of each semester, or as deemed necessary on an individual basis. The appeal process will require a written appeal from the student and completion of an E-advisor program online in order to establish an academic plan for coursework.

If a student's appeal is reviewed and Federal Student Aid is not reinstated by the Financial Aid Committee for the initial Financial Aid Probation period, the student may appeal the decision in accordance with college policy.

Subsequent to review and approval, students whose aid eligibility is reinstated will be subject to following an established academic plan.

If a student has already been placed on an academic plan following a successful Financial Aid Probation appeal, then loses eligibility, the student is required to regain eligibility by meeting the college's Satisfactory Academic Progress Policy. Therefore, the student must meet the academic requirements for a completion ratio of at least 67% as specified above, meet GPA requirements and not have met the maximum attempted hours.

Scholarships/Grants-In-Aid

OTC offers a variety of scholarships. Each scholarship has a specific deadline as well as other qualifications that must be met. Application does not guarantee an award. Most scholarships are awarded in the spring and summer for the fall semester. Visit otc.edu/scholarships for more details and an application.

Federal Work Study Program

OTC is eligible to award Federal Work Study to students who qualify. OTC will assist students in obtaining paid work assignments on campus. The work hours will be limited. For more information, please contact Student Services or visit otc.edu, keyword work study.

Financial Aid Refund Policy (Return of Title IV Funds)

If a student withdraws or is withdrawn or dismissed from OTC, the school or the student may be required to return some of the federal funds awarded to the student. The student may also be eligible for a refund of a portion of the tuition and fees paid to OTC for the semester. If the student received financial assistance other than federal funds, a portion of the refund may be returned to the program from which the assistance was received.

Refunds to all Title IV recipients (Federal Pell Grant, Federal Supplemental Educational Opportunity Grant, and Federal Direct Loans) who withdraw during an enrollment period for which they have been charged will be identified and processed to comply with federal regulations.

If a student withdraws (or stops attending classes) from the college at any time during the semester, the student may be required to repay a portion of the grant or loan aid received. The amount of repayment due is calculated based on the student's last day of attendance. Funds shall be returned to the programs from which the student received them, as specified by the U.S. Department of Education.

If a student wishes to withdraw, the student should contact Student Services and complete a withdrawal form to begin the withdrawal process. This procedure will enable OTC to properly calculate a refund in order to refund the maximum possible institutional charges. The date used when calculating the refund will be the date of withdrawal documented by Student Services. The exception would be in instances when the student's last documented date of attendance was significantly earlier than the withdrawal date.

If required, all items needed for verifications should be turned in at the time of withdrawal. Submitted documents received will be reviewed and eligible student aid awarded.

All students who enroll and are federal financial aid recipients must attend all classes for which they are originally enrolled. Dropping classes could result in a repayment obligation. If you fail to attend one or more of your classes and do not officially withdraw, you may still be required to repay some or all of your financial aid.

If a student stops attending all classes before completing at least 60% (approximately 12 weeks of a 16 week semester) of the semester, they will probably owe money back to the federal financial aid program(s). Repayment is made to federal programs based on the Department of Education Return of Title IV funds formula.

The following example is provided to illustrate how a Return of Title IV (Federal Student Aid) calculation can impact a student:

A student enrolls with tuition, fees and books totaling \$1160.00. The student decides to withdraw from all classes. How does the decision impact the student's original charges? The student should first look toward the Refund Policy to determine if he/she is eligible for a partial refund of charges for the semester. If the student has Federal Student Aid (Federal Pell Grant, Federal Direct Loan, FSEOG), the student should review how the withdrawal will impact eligibility for Federal Student Aid by determining how long they attended classes for the semester.

For this example, we use a date of withdrawal which is 13 calendar days into the semester, which is 121 calendar days long. If you divide 13 days by 121 days, the percentage of the semester the student attended is 10.743%. The Return of Title IV Policy indicates a student must attend more than 60% (approximately 10 weeks of a 16-week semester) of the semester if the student wants 100% of their Federal Student Aid eligibility. If financial aid has been paid to this student, a large portion must be returned to the appropriate Federal Student Aid programs. If Federal Student Aid has not yet paid, a small portion may be paid to the student's account charges.

For this example, let's say the student received \$1875.00 in Federal Pell Grant and \$1313.00 in Federal Direct Loans. If the student withdrew on the thirteenth day, the student would be required to return approximately \$2800.00 to the college.

If a student withdraws before the end of a semester or quits attending all classes, he/she could create a balance at the College, which may negatively impact future enrollment or receipt of Federal Student Aid.

A+ SCHOLARSHIP PROGRAM

With funds made available through the Missouri A+ Scholarship Program, qualified graduates of participating high schools are eligible for scholarship grants to OTC. Students must fulfill A+ Scholarship Program requirements at their high schools before applying for grants. Students should contact high school counselors for eligibility requirements. Details regarding OTC's

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A+ Scholarship Program processes and procedures may be found in the Financial Aid area of the OTC website.

VIP TUITION WAIVER

For in-district students 60 years of age and older, the VIP Program offers one credit class each term, tuition-free, on a space available basis only, after open registration has ended. Students in the VIP Program must pay all fees and other costs (books, supplies, and all fees, if applicable).

VETERANS AFFAIRS—CERTIFICATION OF BENEFITS

Ozarks Technical Community College is approved for certification of students eligible to receive educational assistance from the Department of Veterans' Affairs (DVA). Students eligible to receive Veterans' benefits must be enrolled in a program leading to a Certificate, Associate of Arts, Associate of Science or Associate of Applied Science. Monthly benefit rates are set by Congress and the DVA and vary according to students' benefits categories and credit hour enrollment for each term.

OTC is approved for the enrollment of veterans, survivors and dependents under Title 38 of the U.S. Code, and selected reservists under Title 10 of the U.S. Code. Students who qualify may receive additional information and assistance in Student Services. All persons seeking VA education benefits are required to comply with OTC's satisfactory academic progress standards.

Veteran students who have not attained satisfactory progress by the end of two consecutive probationary semesters will be reported to the Veterans Administration (VA) for unsatisfactory progress, causing termination of benefits, unless there are mitigating circumstances.

For more information, contact the Veteran and Military Services office at otc.edu/veteran, call (417) 447-6968 or email gibill@otc.edu

COUNSELING SERVICES

The Counseling Services staff seeks to support and strengthen members of the OTC community by providing the following individualized and confidential services:

- Individual and group mental health counseling
- Referrals to community resources
- Educational programs both on and off campus
- Crisis intervention services
- Campus-wide outreach events
- Online self-help resources

The counseling staff has extensive experience working with a variety of personal issues faced by OTC's diverse student population and all of the department's individualized counseling services are free and confidential. For more information about these services or to schedule an appointment, contact the Counseling Services office at (417) 447-6974, visit us on the web at otc.edu/counselingservices or email us at counseling@otc.edu.

OTC CARES AND THE BEHAVIORAL INTERVENTION TEAM

OTC Cares is a set of resources that has been established to protect the health and safety of the OTC community. Maintaining a safe environment allows students to focus on their education and get the most out of their time at the college.

OTC's Behavioral Intervention Team (BIT) coordinates OTC Cares to address the needs of students who are experiencing behavioral disturbances. All members of our campus community are asked to report student behaviors of concern using OTC's online Student Concern/Incident Report so that the BIT can effectively and proactively reach out to students in distress. This online incident report form along with detailed information concerning recognizing, responding, referring and reporting students in distress can be accessed at otc.edu/otccares. A member of the BIT can also be reached via phone (417) 447-6697 or via email at otccares@otc.edu.

BREAKING TRADITIONS

The Breaking Traditions program is operated under the umbrella of the Missouri Center for Career Education (MCCE) and is overseen by a regional Career Education Coordinator (CEC). The Breaking Traditions program focuses on students who are considering or pursuing careers that are non-traditional for their gender, and provides information and expertise in the areas of career awareness, exploration and planning. BreakingTraditions offers several support services for both secondary and post-secondary students, including specialized workshops and financial

assistance to students who are enrolled in one of OTC's career/technical programs. This program provides financial assistance for students who are displaced homemakers and/or single parents. The Career Education Coordinator/BreakingTraditions office is located in Information Commons East, Suite 116J, and can be reached at (417) 447-6970.

CAREER EMPLOYMENT SERVICES

Career Employment Services is a resource for all students and graduates as well as for the campus and business community. Experienced staff members provide direct assistance and professional advice on:

- Assessing and exploring career choices and college majors
- Conducting employment and internship searches
- Creating effective résumés and cover letters
- Strengthening interview skills
- Managing careers after graduation

Individual appointments and web-based self-directed technologies are in place to help students explore careers, build professional résumés, and practice and improve their interview skills. Current job openings and internship opportunities can be accessed through College Central Network at collegecentral.com/otc. Business and industry contacts are developed to maintain up-to-date employment listings. Career assessment and exploration can be accessed through FOCUS 2 at www.otc.edu/careerservices/18322.php. Interest, skills, personality, values and leisure assessments are aligned with academic and occupational options to give students the necessary tools to make effective career choice and college major decisions.

The Career Employment Services office, along with a computer resource room, is located in Student Services on the second floor of the Information Commons West. For more information on these and other resources, visit us on the web at otc.edu/careerservices, call (417) 447-6964 or e-mail careeremp@otc.edu.

DISABILITY SUPPORT SERVICES (DSS)

The offices of Disability Support Services, located near the northeast entrance to the Information Commons East on the OTC Springfield Campus (ICE 127) and in Room 206 on the OTC Richwood Valley Campus, provide academic support, accommodation and advocacy for OTC students with disabilities. Current documentation of the disability is required to register for disability support services. Students who are interested in receiving services are encouraged to request a meeting with the DSS office six weeks prior to the beginning of the semester. Requesting services early is helpful in determining reasonable accommodations, but requests for support will be reviewed at any point during the semester.

STUDENT SUPPORT SERVICES

Disability Resource Counselors, Vocational Resource Educators and other DSS staff work directly with students with disabilities to ensure equal access to college programs and services, and with instructors to arrange accommodations, as necessary, for students with disabilities. For further information regarding services on the Springfield and Table Rock campuses as well as the Lebanon and Waynesville centers, please contact Disability Support Services on the OTC Springfield Campus at (417) 447-8189 or online at otc.edu/disabilitysupport. For information regarding services at the Richwood Valley campus, contact (417) 447-7447.

TESTING SERVICES

Testing Services provides accommodations for proctored online exams, placement exams, exit exams, High School Equivalency testing, and select certification exams. For further information visit the Testing Services webpage at otc.edu/testing, or contact the office at testingservices@otc.edu.

SPECKMAN TUTORING AND LEARNING CENTER AND ACADEMIC SUPPORT CENTER

The Speckman Tutoring & Learning Center (TLC) on the Springfield campus and the Academic Support Center (ASC) on the Richwood Valley campus strive to empower students to achieve success. The TLC and ASC do this by offering extensive tutoring services and courses.

The tutoring services are provided on a walk-in basis and require no appointment. The TLC and ASC have tutoring available for math, science and computers, as well as many other subjects. Study skills tutors are also provided to help with any subject. The centers also provide computer support to students needing assistance using MyOTC, AccessOTC, Blackboard and ALEKS. For exact subjects tutored, schedules and services available in Lebanon, Waynesville and Hollister, visit otc.edu/tutoring.

The TLC also provides courses to improve academic skills necessary for success in college and the workforce. Specialists in the areas of reading, writing, mathematics, study skills and college success work with students in both self-paced and seated courses. For more information on courses available, visit the TLC, CAC, RDG 040 and RDG 100 course listings in this catalog.

The TLC is located in Information Commons East (ICE) 212. The ASC is located in Life Science Center (LSC) 206 on the Richwood Valley campus. For additional information, contact the Speckman Tutoring & Learning Center at (417) 447-8164, the OTC Richwood Valley Campus Academic Support Center at (417) 447-7762, or visit otc.edu/tutoring.

LIBRARIES

OTC's libraries are responsible for ensuring students have the academic resources they need to succeed. The collections include print, audio visual and electronic materials, as well as the book collections of over 70 academic and public libraries available through the MOBIUS Consortium.

Friendly, professional library staff provides personalized services, including one-on-one reference and research assistance, customized information literacy tours, interactive online class orientations, and the creation of and access to specialized course reserves. The libraries have private study carrels with wireless access, group study rooms and media viewing stations. Internet printing, photocopies, scanning and fax are available.

The OTC Springfield Campus Library is located on the first floor of the Information Commons in IC 100. The OTC Richwood Valley Campus Library is located on the second floor of the Life Science and Technology Center in LSC 203, adjacent to the Atrium. Electronic library services and reference assistance are also available on the first floor of the Robert W. Plaster Free Enterprise Center at the OTC Table Rock Campus. For further information contact the OTC Springfield Campus Library at (417) 447-8185 or the OTC Richwood Valley Campus Library at (417) 447-7750 or visit the Library webpage at otc.edu/library.

CAROL JONES WRITING CENTER

The Carol Jones Writing Center is a free, friendly service provided to all OTC students. Our staff of student peer tutors will assist you with any aspect of any writing assignment for any course. Whether you are selecting a topic, pre-writing, organizing, composing the draft, revising, editing or documenting your sources, the writing center can help.

The writing center is located on the second floor of Information Commons 200, directly above the OTC Library. Hours are Monday through Thursday 8:30–6:30 and Friday 8:30–2:30. Walk-ins are welcome, but call ahead for an appointment to insure someone will be available to help. For more information or to schedule an appointment, call (417) 447-8235.

The Carol Jones Writing Center also offers synchronous one-on-one online tutoring to anyone with Internet access. Online tutorials are on an appointment only basis and are offered only during regular business hours. Appointments must be made 24 hours in advance so the student can be coached on how to navigate the system. Call (417) 447-8235 for your appointment.

SPEECH COMMUNICATION CENTER

The Speech Communication Center is dedicated to providing free student/community support through quality tutoring and mentoring in the areas of select world languages, public speaking, and the communication

disciplines. Students from all disciplines may benefit from services provided by OTC's Speech Communication Center. The following free services are provided:

1. Help with speech anxiety and communication apprehension.
2. Guidance regarding topic selection, organization, research, development, outlining and speech delivery for oral presentations in any course.
3. Speech rehearsal and speech taping for online or seated classes.
4. Personal tutoring for any communication course.
5. Individualized tutoring of world language courses including American Sign Language, French, German and Spanish.

The Speech Communication Center is located in Information Commons 200 on the OTC Springfield Campus. Walk-ins are welcome, but appointments are encouraged. For more information, operating hours, or to schedule an appointment call (417) 447-8982 or e-mail speechcenter@otc.edu.

ACADEMIC INFORMATION

ACADEMIC ADVISEMENT

New students will be assisted by Student Services advisors and staff in making career decisions, selecting courses and accessing appropriate support services. Currently enrolled students will then be assigned an academic advisor who will assist in future career and course selection decisions. Academic advisor contact information is located online at AccessOTC. Certain students, including those on academic probation and those who place into two or more developmental courses, will be required to contact their assigned advisor before registering the subsequent semester. All degree-seeking students should file an Education Plan, approved by their assigned advisor, before registering for their second semester. For Advising resources and tutorials, visit otc.edu/advising. For more information, call (417) 447-6900.

DEVELOPMENTAL COURSES

Developmental courses are courses that are numbered below 100. These courses provide instruction in basic math, reading, writing and study skills that are necessary for achieving almost all academic and career goals. Development courses in math and english (MTH and ENG prefixes) are prerequisites to college level (100 or above) math and english courses. Development courses in reading (RDG prefix) are prerequisites for most college level courses. Courses with the prefix TLC are offered through the Speckman Tutoring and Learning Center and include a variety of study skill courses. ACT and/or COMPASS test scores determine if a student is required to enroll in developmental courses.

Developmental courses are not counted toward a certificate or degree program and are not a part of the grade point average (GPA) calculation. Students taking developmental classes should determine if there are any financial aid implications.

Bridge to Success. Students who test at a developmental level in two or more subject areas participate in OTC's Bridge to Success program. The goal of this program is to ensure that students become academically prepared for the courses they need to take at the college level and also provide added support for success. Additional information may be located on the web at otc.edu/advising/bridgetosuccess.php. Questions concerning the Bridge to Success program can be directed to BridgetoSuccess@otc.edu.

HIGH SCHOOL PROGRAMS

OTC Career Center

Enrollment through the OTC Career Center is an excellent way for eligible high school juniors and seniors who reside in the OTC district (plus Bolivar, Fair Grove, Marion C. Early, Seymour and Sparta) to engage in career exploration, prepare for a community college or four-year university, and develop career and technical education skills needed in today's global economy and workforce. Students attend one half day of classes, either

mornings or afternoons, at their high school and then attend college-level career and technical education courses on the OTC main campus. Each year of enrollment, students have the opportunity to earn high school and college credits simultaneously; on average, students may earn up to 32 hours of college credit when enrolled in an OTC technical program for two years through the OTC Career Center. Tuition and transportation are provided by the student's high school and the college textbooks are loaned to the student by the OTC Career Center. The office is located on the first floor of the Industry Transportation & Technology Center, Suite 109 on the OTC Springfield Campus. For more information, call (417) 447-8126.

Middle College

Middle College, located at OTC Springfield Campus, opened in 2008 to provide local students with an alternative, contemporary model of education. Middle College serves juniors and seniors in high school who seek a change from the traditional school experience. The program is focused on college and career readiness and designed to inspire student learning through a stimulating college environment, innovative teaching and internship experiences. All students select a career pathway from one of five areas: early childhood, diesel/automotive technology, medical services, computers and agriculture. The typical student can earn 20+ college credits by the time they graduate from high school. Students from Springfield Public Schools, Rogersville, Republic and Everton may apply through their high school counselor. Students must be selected and approved by their home high school prior to admission. Middle College is a scholarship-based program. All tuition, fees and textbooks are free. An annual student enrollment fee of \$60 is paid by the student. Additional information may be located on the web at otc.edu/middlecollege or by calling the office at (417) 447-6997.

Health Professions Academy

The Health Professions Academy opened in fall 2013 to help high achieving students interested in the healthcare field finish high school and start college early. The typical student can earn 30-40 college credits by the time they finish high school through this accelerated program. Eligible students must apply during their sophomore year and meet the following criteria: 3.00 GPA, good attendance and economic need. Students will participate in an interview selection process and family income will be required to determine eligibility. The Health Professions Academy is a scholarship-based program. All tuition, fees and textbooks are free. An annual student enrollment fee of \$60 is paid by the student. The Health Professions Academy is operated under the educational umbrella of the Middle College high school program. Additional information may be located at otc.edu/middlecollege or by calling the office at (417) 447-6997.

Dual Credit

The OTC Dual Credit program provides an opportunity for eligible junior and senior high school students to enroll in college-level courses and earn both college credit and high school credit simultaneously by

taking OTC classes at their high school or online. The primary purpose is to provide introductory college experiences for high performing high school students within the college service region. For more information please visit the OTC Dual Credit webpage at otc.edu/dualcredit or email dualcredit@otc.edu.

Early Start Students

High school junior and senior class students sixteen (16) years of age or older may be admitted to some courses on the college campus under certain conditions. A permission form can be obtained from Student Services. For more information, call (417) 447-8198 or visit otc.edu/highschool.

FAST-Track

OTC's newest high school program, FAST-Track allows students to take courses at any OTC campus or education center during their high school hours and the high school is responsible for the tuition. FAST-Track is currently only available at the Hollister, Laquey and Ozark school districts. This program is a great opportunity for high schools that do not have certifiable instructors to teach dual credit courses and/or do not have the technology or the space to participate in online dual credit. Students get a real taste of college-level courses and campus life. For more information, call (417) 447-8198 or visit otc.edu/highschool.

ADULT EDUCATION AND LITERACY (AEL)

(Certificate of High School Equivalence Preparation and English as a Second Language)

OTC's Adult Education and Literacy (AEL) program provides specialized instruction to help students build or refresh the basic academic skills necessary for success in the workplace, developing English as a Second Language (ESL), success on the Certificate of High School Equivalence exam, or in preparation for post-secondary education. The free classes are available throughout Greene, Polk, Dallas, Lawrence, Christian, Stone, Taney, Webster and Wright counties in cooperation with local school districts and agencies. AEL is funded by OTC and Missouri Department of Elementary and Secondary Education. Call (417) 447-8860 for location and enrollment information.

ADULT EDUCATION TRANSITION PROGRAM

Improve your English and math skills at no cost through OTC's Adult Education Transition program. Through this program, you have the chance to strengthen your academic skills by targeting courses specific to your needs. This no cost opportunity increases your chance of success and allows you to complete your certificate or degree with fewer developmental courses.

Many students starting college may need to review skills they have forgotten. Others may have learning gaps in subjects they found difficult or missed in school. The Adult Education Transition program helps you be better prepared for success. One of the best things about the Adult

Education Transition Program is that it is individualized. That means you will only study the things you need to learn. Students' skills are reviewed after 50 hours of attendance.

CENTER FOR WORKFORCE DEVELOPMENT (CWD)

The Center for Workforce Development is an important economic development arm of OTC. The center is focused on supporting and increasing job skills for southwest Missouri's workforce talent pipeline by delivering industry-specific and accelerated job training programs. These programs meet the service area's business needs in order to maintain a stable economy.

CWD staff work with local employers to design workforce training programs that meet specialized training needs. Program topics may include pre-employment training programs or customized, incumbent worker training programs. Types of workforce job training programs available range from updating or developing new technical skills, computer training, team-building, basic supervision skills, manufacturing, safety, robotics, green construction, alternative energy, Transport Training Institute with CDL licensing, engine mechanical and executive leadership development. Job skills training and professional certificate programs are available for careers such as Certified Nurse Assistant, Pharmacy Technician, Phlebotomy Technician, Child Development Associate, among many others. For more information and assistance, (417) 447-8901 or visit workforce.otc.edu.

COMPUTER USE EXPECTATIONS FOR SEATED COURSES

In today's computer-based society, it is imperative that students develop computer skills. Therefore, OTC students will be expected to use online technology to assist them in the learning process. At a minimum, students will be expected to log on to the online learning platform (i.e. Blackboard) where the course syllabus and faculty information are located. In addition, they may be expected to utilize further online technology as required by the instructor.

HONORS PROGRAM

The Honors Program at OTC allows qualified students the opportunity to engage in unique learning opportunities while developing close academic relationships with peers and instructors. The OTC Honors Program provides academically motivated and high-achieving students who conduct themselves in a responsible manner the opportunity to develop their full potential through collaboration with a designated community of scholars and enhanced/additional learning environments and opportunities.

The Honors Program is designed to:

- Encourage critical and creative thinking through curriculum that requires analysis, interpretation, synthesis and problem solving.
- Provide an enriched and innovative program of study to students who demonstrate a motivated and inquiring attitude toward education.
- Foster team building, collaboration and leadership through the skillful use of communication.
- Promote responsible and challenging actions for the common good as an active, engaged citizen.
- Build a network of academic and community resources.

The Honors Program is a selective admissions program with limited enrollment per semester, please contact the Director of the Honors Program for more information concerning the application process, the coursework requirements, and the program completion requirements. Visit otc.edu/honors for more information.

CLASSIFICATION OF STUDENTS

Freshman. A student who has completed fewer than thirty (30) credit hours of course work.

Sophomore. A student who has completed thirty (30) or more credit hours of course work.

CONCURRENT ENROLLMENT

Concurrent enrollment of a student at more than one educational institution may be appropriate and should not be discouraged, but the student should consider the demands of the total academic load.

COURSE NUMBERING SYSTEM

001–099 Developmental

Will not count toward the requirements for a certificate or degree.

100–199 Freshman-Level Courses

May be counted toward the requirements for a certificate or degree.

100 level courses assume minimal background knowledge and/or skills. These courses introduce students to the vocabulary and methods of the discipline.

Those offered by the Allied Health and Technical divisions would normally appear in the first year of the preferred course sequence.

Those offered by the General Education division would traditionally be freshman level courses for students majoring or minoring in this discipline at a four-year institution.

200–299 Sophomore-Level Courses

May be counted toward the requirements for a certificate or degree.

200 level courses assume both background knowledge and/or skills. These courses expect students to apply and synthesize background knowledge and/or skills.

Those offered by the Allied Health and Technical divisions would normally appear in the second year of the preferred course sequence.

Those offered by the General Education division would traditionally be sophomore level courses for students majoring or minoring in this discipline at a four-year institution.

COURSE DELIVERY OPTIONS

Seated Course

Courses that require regularly scheduled on-campus class attendance for the entire semester.

Online Course

Courses in which students access all course materials, participate in course activities and interact with other students and the instructor over the internet. Each online course requires at least one proctored event. Some specifically determined courses may require more than one proctored event.

Hybrid Course

Courses in which a portion of the curriculum is conducted online and a portion requires on-campus attendance. Face-to-face meeting times will be clearly stated in the semester schedules.

GRADING SYSTEM

Official grades are issued for each student at the end of each semester. Students enrolled in credit courses will be graded by the letter grade system indicated below:

Grade	Points	Definition
A	4	The student has, in an exemplary way, met the objectives established for the course
B	3	The student has, in a superior way, met the objectives established for the course
C	2	The student has adequately met the objectives established for the course.

Grade	Points	Definition
D	1	The student has minimally met the objectives established for the course.
F	0	The student failed to meet the objectives established for the course.
AU	0	The student enrolled in and completed the course as an "auditor." Requirements for successful completion as an auditor are arranged with the course instructor. Does not count as credit for the course.
G	0	Academic Fresh Start. Used in conjunction with the original letter grade earned by the student. Course no longer counts toward a certificate or degree. Not counted for academic honors.
I	0	An "I," or incomplete, indicates that a student has been doing acceptable work but has not completed a small amount of the work. It is the student's responsibility to have this deficiency removed within six (6) weeks after the incomplete is assigned. When, in the judgment of the instructor, a student is not making a reasonable effort to remove the incomplete, the grade will automatically be changed to an "F."
N	0	Used in conjunction with letter grades of A,B,C,D for classes which are traditionally below college level (less than 100 level). These courses are not included in consideration for honors.
NP	0	Not Passing. Given for courses (less than 100 level), as well as selected courses which have been approved by the Vice Chancellor for Academic Affairs, to be offered on a Passing/Not-Passing system.
P	0	Passing. Awarded upon successful completion of Continuing Education course. May also be used for selected credit courses with the approval of the Vice Chancellor for Academic Affairs.
S	0	Credit by Exam. The student received credit for the course through proficiency examination. This symbol counts as hours earned but not as hours attempted. Not more than 24 credit hours may be earned through "Credit by Exam" unless otherwise approved by the Vice Chancellor for Academic Affairs.
W	0	Withdrew. The student withdrew prior to the deadline to withdraw. This symbol does not count as hours attempted or as hours earned.
R	Repeat Code	The student has repeated the course work.

COURSE LOAD/OVERLOAD

It is required that the maximum course load for each of the following academic terms be observed:

Term	Maximum Credit Hours
Summer	10 credit hours
Fall	21 credit hours
Spring	21 credit hours

Students may not exceed these maximums unless they have received permission for an overload from an academic advisor. The student must complete a time management plan and is expected to have carried a minimum of 12 credit hours of college level courses during the previous semester and maintained a GPA of at least 3.0.

Enrollment Definitions

Full-Time: A student enrolled for twelve or more credit hours.

Part-Time: A student enrolled for fewer than twelve credit hours.

PREVIOUSLY EARNED CREDIT

Certain vocational and technical course work earned more than six (6) years prior to the awarding of a degree or certificate may be counted only with the approval of the Vice Chancellor for Academic Affairs.

CREDIT BY EXAM (TEST OUT)

It is the policy of the college that credit for specified courses may be awarded by examination. A student who can demonstrate the required competencies, by means of an established assessment, may receive credit for a course. Please see the Student Handbook for procedures to complete this process.

PROBATION & SUSPENSION

The Academic Probation and Suspension policy applies only to students enrolled in credit programs.

A minimum cumulative 2.00 GPA is necessary for graduation. Transfer credits are not included in the GPA computation. Degree- and certificate-seeking students performing below the satisfactory level outlined in the schedule detailed below will automatically be placed on academic probation until they attain the satisfactory GPA level.

Probationary students are expected to work closely with their instructors, advisors and counselors in order to improve their academic performance. Probationary students will be required to limit their semester course

ACADEMIC INFORMATION

load to 12 hours or less as determined by the advisor and approved by the appropriate administrator. Students may also be required to enroll in developmental course work.

The Cumulative Grade Point Average Schedule

Cumulative Hours Attempted	GPA Satisfactory Level
6–25	1.50
26–40	1.75
41+	2.00

Probationary students who have not attained satisfactory progress levels will be suspended for one semester at the end of three consecutive probationary semesters of enrollment. Students on academic suspension are not eligible for re-enrollment at OTC the following full semester. They may be re-admitted on probation after one semester's suspension.

REPEATING COURSES

Credit Courses. Courses with earned grades may be repeated to allow a student to improve his/her grade point average. Once a class is repeated, the new grade replaces the previous grade in the grade point average. If a student elects to repeat a course, the grade earned from the final attempt of the course is the final grade, even if that grade is lower than the previous attempt. All previous attempts will be shown on the transcript as a repeated course and will not be included in the semester or cumulative grade point average calculations.

Center for Workforce Development. Students may enroll in community enrichment courses as many times as necessary to accomplish their individual goals, provided they continue to show progress, do not prohibit others from participating, and are willing to pay fees.

ACADEMIC & COURSE GRADE APPEAL

The college has established an equitable and orderly process to resolve academic dissatisfaction. This may include final grades, instructional procedures, attendance, instructional quality and situations related to academic issues. For a detailed procedure, please see the Student Handbook.

ACADEMIC FRESH START

Students returning to OTC after an absence of three years or longer, with a cumulative OTC GPA of less than 2.0, may apply for Academic Fresh Start in order to recover from a deficient GPA. Academic Fresh Start will be limited to those cases in which the student's prior record does not reflect his/her current maturity with respect to motivation, attitude and ability. For a detailed procedure, please see the Student Handbook.

ACADEMIC HARDSHIP WITHDRAWAL

An Academic Hardship Withdrawal may be granted to students who experience non-academic emergencies which interfere or prevent the completion of coursework and cannot be resolved through traditional withdrawal methods. Typically, hardships (non-academic emergencies) tend to fall into one of three categories: medical, personal and financial. Hardship withdrawals are not granted unless there is a compelling reason for such requests.

The Academic Hardship Withdrawal process is not the appropriate venue to resolve or petition instructional or financial matters (e.g., grades, refunds). Such concerns must be addressed to the respective department. In addition, the Hardship Withdrawal process is not an alternative means to drop classes after the published drop date to remove unwanted grades or preclude resulting academic/financial aid actions (warning, probation, exclusion, etc.). For a detailed procedure, please see the Student Handbook.

FINAL EXAMINATIONS

It is the policy of the college that all courses will include a comprehensive end-of-term assessment. Each course will have a consistent assessment to be given during the pre-determined final testing period for each section of the course regardless of location or delivery method. This assessment will be of a comprehensive nature to measure the students general understanding of the topics covered throughout the course. Each assessment will be delivered in a manner to most effectively utilize the allotted time period provided. Any deviation from these procedures must be approved by the Vice Chancellor for Academic Affairs, prior to the scheduled assessment period. Please see the OTC website for the current final examination schedule.

GRADUATION REQUIREMENTS

Successful candidates for graduation will:

- Complete all degree or certificate requirements for his or her chosen field of study.
- Have a minimum cumulative 2.00 GPA after his or her final semester. Select programs may require a higher cumulative GPA.
- Take 15 of the final 30 semester credit hours in residence at OTC. Certificate programs will require the number of credit hours in residence proportional to the associate degree.
- Complete all steps in the application for graduation process.

Please complete all processes for graduation as described in the Student Handbook.

ACADEMIC HONORS

OTC recognizes students for academic achievement. Honors recognition may be earned by both full and part-time students. Students who complete 12 or more credit hours will be eligible for the Chancellor's and Dean's lists. Courses below 100 level will not be included. Recognition will be given for the term in which a 12 hour increment is completed. The recognition shall be based on the grade point average attained during the 12 credit hour increment. Once a 12 hour increment is completed, a new 12 credit hour increment for eligibility for the Chancellor's and Dean's list will begin. The following criteria shall be used:

1. Eligible students earning a GPA of 3.85 or above will be placed on the Chancellor's List for the term.
2. Eligible students earning a GPA of 3.50 to 3.84 inclusive will be placed on the Dean's List for the term.

Graduation Honors

The cumulative GPA at the end of the semester will be utilized by the Registrar to rank the candidates for associate degrees and certificates for academic honors. Final honors will be posted to the transcript and diploma using the final cumulative GPA.

- 4.0 – Summa Cum Laude
- 3.85 to 3.99 – Magna Cum Laude
- 3.5 to 3.84 – Cum Laude

COMMENCEMENT

OTC holds commencement exercises once a year following the spring term. Students completing program requirements in the spring, summer and fall semesters are invited to participate in the ceremony. Students should apply for graduation whether or not they plan to attend the graduation ceremony.

DIPLOMAS

Once you've applied for graduation, your coursework will be verified and your diploma mailed to you within six to eight weeks of the end of the term you finish. Your diploma will be sent to the mailing address on file for you in Student Services, provided that your record is clear of all holds.

A.A., A.S.

GENERAL DEGREE REQUIREMENTS

The general requirements for an associate degree from OTC are as follows:

- At least 62 semester hours of college credit; fifteen (15) of the final thirty (30) hours of coursework must be completed in residence.
- The completion of minimum requirements specified for each program.
- A cumulative grade point average of 2.00 (C) or better.
- Approval of the candidate for a degree by faculty and administration.

The following policies should be noted:

1. Students must take appropriate courses to satisfy the requirements in state and federal constitutions and in American history and regulatory infrastructures. See the course requirements for the appropriate courses.
2. A student who meets the standards set by the college for credit by exam may be granted credit up to a maximum of one half of the required credit for a degree or certificate.
3. A student will satisfy the catalog requirements in effect when student entered or re-entered (after one semester of absence) the college.
4. In determining the 2.00 minimum grade point average required for graduation, transfer grades will not be counted.

A candidate for a certificate or degree must:

1. File an "Application for Graduation" the semester prior to graduation with the Office of the Registrar.
2. Complete the necessary exit assessment evaluation.
3. Contact the Office of the Registrar for deadline dates.

PREREQUISITE CONCERNS

If a student has questions or concerns regarding prerequisite courses, he/she should see the appropriate department chair or division dean. A course waiver form may be appropriate.

ASSOCIATE OF ARTS DEGREE (A.A.)

The Associate of Arts degree is designed to allow a student who plans to transfer to a four-year college or university to complete the general education requirements. Of the 62 credit hours required, a student must complete a designated core of general education courses and subject distributions; the remaining hours will consist of electives that are numbered 100 or higher. In order for an Associate of Arts degree to be awarded, 15 of the final 30 hours of coursework must be completed in residence.

ASSOCIATE OF SCIENCE DEGREE (A.S.)

The Associate of Science degree is a specialized degree for the students who intend to transfer to a college or university in a program that has an emphasis in science and/or math. The programs to which this degree applies have established articulation agreements with specific four-year colleges or universities. Each A.S. degree is designed to meet the lower-division general education requirements and program-specific prerequisite requirements of the receiving institution. In order for an Associate of Science degree to be awarded, 15 of the final 30 hours of coursework must be completed in residence.

ASSOCIATE OF APPLIED SCIENCE DEGREE (A.A.S.)

The Associate of Applied Science degree is oriented toward career and professional preparation. Each program is designed to provide a student with the skills and knowledge to enter the workforce after completing at least 62 credit hours of coursework. Requirements of A.A.S. degree programs may vary; however, a minimum of 25 percent of the required credit hours must consist of college-level transferable general education credits. The remaining required credit hours are specific to the program. In order for an Associate of Applied Science degree to be awarded, 15 of the final 30 hours of coursework must be completed in residence.

Students should consult with their faculty advisor and the institution to which they intend to transfer to ensure transferability of courses.

CERTIFICATE OF ACHIEVEMENT

The Certificate of Achievement is awarded to a student completing one of the allied health or technical career programs with fewer than 62 credit hours. Each career certificate is earned after completing a prescribed set of courses. Normally, two full semesters or their equivalent are required to complete the requirements for a one-year certificate.

Note: The degree requirements and course listings in this catalog are subject to change within an academic year. Refer to otc.edu for the most recent listings.

CERTIFICATE OF SPECIALIZATION

The Certificate of Specialization is awarded to a student completing designated requirements within a program. These requirements will provide the student the knowledge and skills to further develop strengths in predefined areas of concentration many times related to their current or anticipated future employment. Certificates of Specialization are short-term programs of study. The credit hours earned in most programs may be applied toward a Certificate of Achievement and/or an Associate of Applied Science degree in the related field of study.

Note: The degree requirements and course listings in this catalog are subject to change within an academic year. Refer to otc.edu for the most recent listings.

ELECTIVE CHOICES

Most degrees and certificate programs of study include “electives” in the list of General Education requirements. An elective is any course numbered 100 or higher. Check the course descriptions for any prerequisites. Some programs may require an elective from specified areas. Please consult specific degree program requirements for those elective choices.

COMMUNICATION ELECTIVES

Includes any Communication (COM) course numbered 100 or higher.

ENGLISH ELECTIVES

Includes any English (ENG) course numbered 100 or higher.

HUMANITIES ELECTIVES

Includes any course numbered 100 or higher (or specifically designated) in the following areas:

ART	Art	101, 105, 110
ASL	American Sign Language	101, 102
CHN	Chinese	
ENG	English	180, 195, 220, 225, 240, 245, 250, 260, 265
FRN	French	
GRM	German	
HST	History	105, 106
HUM	Humanities	101, 102
MUS	Music	101, 105, 106, 201
PHL	Philosophy	101, 105, 110, 120, 125
SPN	Spanish	
THR	Theater	101
WLE	World Language Elective	Offered through the Foreign Language Institute - see pg 59

MATHEMATICS ELECTIVES

Include any Mathematics (MTH) course numbered 100 or higher.

SCIENCE ELECTIVES

Include any course numbered 100 or higher in the following areas:

BCS	Biological Clinical Science
BIO	Biology
CHM	Chemistry
EGR	Engineering
PHY	Physics

SOCIAL/BEHAVIORAL SCIENCE ELECTIVES

Includes any course numbered 100 or higher in the following areas:

AGR	Agriculture	100
ANT	Anthropology	
ECO	Economics	
GRY	Geography	
HST	History	
PLS	Political Science	
PSY	Psychology	Please check specific degree to see if PSY 100 qualifies as an elective
SOC	Sociology	

Note: As required by Missouri law, all degree programs must include instruction in both the U.S. and the Missouri State Constitution. This can be satisfied by either PLS 101 or both HST 120 and HST 130.

SOPHOMORE SEMINAR

Minimum of 28 hours in the general education block is required for enrollment.

General Education Requirements			Credits	Semester Taken	Prerequisites
Mathematics	MTH 128 or 130 (or higher)		3		Grade "C" or better in MTH 110 or equivalent or satisfactory score on the Mathematics Placement Assessment.
English	ENG 101		3		Grade of "NC" or better in ENG 050 and RDG 050 or satisfactory score on the English Placement Assessment.
	ENG 102 (or ENG 150)		3		ENG 101
Communication	COM 105		3		None
Humanities	Block I: Western Culture (Select One)	ART 101,105, 110	3		See course descriptions section of the catalog for individual course prerequisites.
		ASL 101,102			
		ENG 180, 195, 220			
		225, 240, 245, 250			
		HUM 101			
		MUS 105			
		PHL 101,105,120, 125			
		THR 101			
	Block II: World Culture (Select One)	ENG 260, 265	3		
		CHN, FRN, GRM, SPN, World Language Elective			
		HST 105, 106			
		HUM 102			
		MUS 101, 106, 201			
		PHL 110			
Choice of Humanities Block I or Block II - includes any course from ART, MUS, and THR		3			
Biological Sciences	BIO 100, 105, 160		4		
Physical Sciences	CHM 101, 160 and 161 or		4		
	PHY 100, 101, 105, 110, 120, 220				
Social Sciences	Must satisfy MO law to include instruction in U.S. and State Constitution by including either PLS 101 or HST 120 and HST 130.	AGR 100, ANT, ECO, GRY, HST, PLS, PSY, SOC (may not include PSY 100)	9		See course descriptions section of the catalog for individual course prerequisites.
Lifetime Wellness	HLT 101		2		None
Computer Applications	CIS 101		3		Keyboarding skill of 25 WPM or BUS 101 or CIS 100 recommended
TOTAL GENERAL EDUCATION REQUIREMENTS			43		A student who completes these requirements will have a confirmation of completion noted on his/her transcript.
Electives (courses must be numbered 100 or higher)			19		
TOTAL CREDIT HOURS REQUIRED FOR THE A.A. DEGREE			62		Each student must apply for graduation to be eligible to graduate. The graduation application is student initiated by the submission of the Application for Graduation form. The form is available in Student Services or through AccessOTC.

ASSOCIATE OF ARTS DEGREE (A.A.)

Business

A.A. Degree: 64 Hours

The Associate of Arts Degree in Business is a directed path of study preparing students for transfer and upper division work at four-year institutions offering business and accounting programs. This degree requires students to satisfy the A.A. general education transfer block, 15 hours of business related coursework and at least 6 hours of additional credit from electives.

Each transfer institution will have specific admission requirements for their institution and business and/or accounting program. Students should contact the intended transfer institution to verify they have met all transfer requirements and the college's choices within the general education transfer block and additional courses beyond the 15 hours of business coursework that are appropriate for their desired degree.

General Education Requirements			Credits	Semester Taken	Prerequisites
Mathematics	MTH 128 or 130 (or higher)		3		Grade "C" or better in MTH 110 or equivalent or satisfactory score on the Mathematics Placement Assessment.
English	ENG 101		3		Grade of "NC" or better in ENG 050 and RDG 050 or satisfactory score on the Placement Assessments.
	ENG 102 (or ENG 150)		3		ENG 101
Communication	COM 105		3		None
Humanities	Block I: Western Culture (Select One)	ART 101,105, 110	3		See course descriptions section of the catalog for individual course prerequisites.
		ASL 101,102			
		ENG 180, 195, 220			
		225, 240, 245, 250			
		HUM 101			
		MUS 105			
		PHL 101,105,120, 125			
		THR 101			
	Block II: World Culture (Select One)	ENG 260, 265	3		
		CHN, FRN, GRM, SPN, World Language Elective			
		HST 105, 106			
		HUM 102			
		MUS 101, 106, 201			
		PHL 110			
Choice of Humanities Block I or Block II - includes any course from ART, MUS, and THR		3			
Biological Sciences	BIO 100, 105, 160		4		
Physical Sciences	CHM 101, 160 and 161 or		4		
	PHY 100, 101, 105, 110, 120, 220				
Social Sciences	PLS 101		9		See course descriptions section of the catalog for individual course prerequisites.
	ECO 270				
	PSY 110				
Lifetime Wellness	HLT 101		2		None
Computer Applications	CIS 101		3		Keyboarding skill of 25 WPM or BUS 101 or CIS 100 recommended
TOTAL GENERAL EDUCATION REQUIREMENTS			43		A student who completes these requirements will have a confirmation of completion noted on his/her transcript.

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Business

A.A. Degree: 64 Hours

General Education Requirements		Credits	Semester Taken	Prerequisites
General Education Requirements	See previous page	43		
Program Specific Courses	ACC 220	3		See course descriptions section of the catalog for individual course prerequisites.
	ACC 225	3		
	BUS 140	3		
	BUS 160	3		
	ECO 275	3		
Additional Electives	BUS 110	6		See course descriptions section of the catalog for individual course prerequisites.
	BUS 130			
	BUS 150			
	BUS 290			
	CIS 105			
	MTH 210			
	Elective (course must be numbered 100 or higher)			
TOTAL CREDIT HOURS REQUIRED FOR THE A.A.B. DEGREE		64		Each student must apply for graduation and complete the ASK Exit Exam to be eligible to graduate. The graduation application and subsequent exit exam is student initiated by the submission of the Application for Graduation form. The form is available in Student Services or through AccessOTC.

ASSOCIATE OF ARTS DEGREE (A.A.)

Behavioral Science

A.A. Degree: 62 Hours

The Associate of Arts in Behavioral Science is an interdisciplinary degree that provides a directed path of study for transfer to institutions offering baccalaureate and advanced degrees in Psychology, Criminology, Sociology, Social Work or related fields of study. The degree also provides the academic background required to secure entry level employment options in a variety of human service positions.

General Education Requirements			Credits	Semester Taken	Prerequisites
Mathematics	MTH 128 or 130 (or higher)		3		Grade "C" or better in MTH 110 or equivalent or satisfactory score on the Mathematics Placement Assessment.
English	ENG 101		3		Grade of "NC" or better in ENG 050 and RDG 050 or satisfactory score on the Placement Assessments.
	ENG 102 (preferred) or ENG 150		3		ENG 101
Communication	COM 105		3		None
Humanities	Block I: Western Culture (Select One)	ART 101,105	3		It is recommended to take two consecutive semesters of a World Language to partially meet the 9 hours of credit required in Humanities (please consult an advisor from the four year university).
		HUM 101			
		MUS 105, THR 101			
	Block II: World Culture (Select One)	ENG 260, 265	3		
		FRN, GRM, SPN, World Language Elective			
		HST 105, 106			
		HUM 102			
	Choice of Humanities Block I or Block II		3		
Biological Sciences	BIO 100, 105, 160		4		
Physical Sciences	CHM 101, 160 and 161 or PHY 100, 101, 105, 110, 120, 220		4		
Social Sciences	PLS 101		9		See course descriptions section of the catalog for individual course prerequisites.
	PSY 110				
	SOC 101				
Lifetime Wellness	HLT 101		2		None
Computer Applications	CIS 101		3		Keyboarding skill of 25 WPM or BUS 101 or CIS 100 recommended
TOTAL GENERAL EDUCATION REQUIREMENTS			43		A student who completes these requirements will have a confirmation of completion noted on his/her transcript.

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Behavioral Science

A.A. Degree: 62 Hours

General Education Requirements		Credits	Semester Taken	Prerequisites.
General Education Requirements	See previous page	43		
Program Specific Courses	PSY 210	3		See course descriptions section of the catalog for individual course prerequisites.
	PSY 220	4		
	SOC 215	3		
Additional Electives	PSY 130	9		See course descriptions section of the catalog for individual course prerequisites.
	PSY 285			
	CRM 230			
	CRM 260			
	SOC 200			
	SOC 225			
TOTAL CREDIT HOURS REQUIRED FOR THE A.A. BEHAVIORAL SCIENCE DEGREE		62		Each student must apply for a graduation audit to be eligible to graduate. The graduation audit is initiated by the submission of the Application for Graduation Form. The form is available in Student Services or through AccessOTC.

ASSOCIATE OF ARTS IN TEACHING DEGREE (A.A.T.)

A.A.T. Degree: 65 Hours

The Associate of Arts Degree in Teaching (A.A.T.) is a directed path of study preparing students for transfer and upper division coursework at four-year institutions offering teacher education programs and certification for levels PK-12. This degree requires students to satisfy the A.A. general education transfer block, 12 hours of teacher education professional coursework and at least 9 hours of elective credit. Students must also achieve a minimum cumulative GPA of 2.75 and a passing score on all state-required general education exams.

NOTE: If a student has transfer equivalencies from any prior colleges attended, these grades are not currently figured into the OTC GPA. A.A.T students should note that the Missouri Department of Elementary and Secondary Education requires that four year schools calculate all prior credits and grades in the computation of a cumulative GPA. Therefore, all transfer equivalencies will be figured into your transfer cumulative GPA when a student seeks admission into a four-year Teacher Education program of study.

In addition, some institutions may not accept any grade in any teacher education course that is lower than a B. Please check with the transfer institution to determine specific admission requirements.

Students must contact the intended transfer institution to verify adequate completion of all necessary coursework for their desired teaching certificate.

A student meeting all degree requirements except for the 2.75 GPA and/or successful completion of the state-required general education exam may graduate with an A.A. degree.

General Education Requirements (check course descriptions for prerequisites)			Credits	Semester Taken	Preferred Courses for the A.A.T.
Mathematics	MTH 128 or 130 (or higher)		3		Secondary Education requires MTH 130 or higher
English	ENG 101		3		
	ENG 102 (or ENG 150)		3		ENG 102
Communication	COM 105		3		
Humanities	Block I: Western Culture (Select One)	ART 101,105, 110	3		Note: The level and type of Teacher Certification, as well as the transferring four-year institution can impact which General Education required course is the best fit. Please consult an advisor from the four-year institution you intend to transfer to regarding the selection of courses specific to their program.
		ASL 101,102			
		ENG 180, 195, 220			
		225, 240, 245, 250			
		HUM 101			
		MUS 105			
		PHL 101,105,120, 125			
		THR 101			
	Block II: World Culture (Select One)	ENG 260, 265	3		
		CHN, FRN, GRM, SPN, World Language Elective			
		HST 105, 106			
		HUM 102			
		MUS 101, 106, 201			
		PHL 110			
Choice of Humanities Block I or Block II - includes any course from ART, MUS, and THR		3			
Biological Sciences	BIO 100, 105, 160		4		BIO 100
Physical Sciences	CHM 101, 160 and 161 or		4		CHM is preferred for secondary certification.
	PHY 100, 101, 105, 110, 120, 220				

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ASSOCIATE OF ARTS IN TEACHING DEGREE (A.A.T.)

A.A.T. Degree: 65 Hours

Social Sciences	Must satisfy MO law to include instruction in U.S. and State Constitution by including either PLS 101 or HST 120 and HST 130	AGR 100, ANT, ECO, GRY, HST, PLS, PSY, SOC, (may not include PSY 100)	9		Note: It is recommended that all AAT students take: PLS 101 PSY 110 HST 120 or HST 130
Lifetime Wellness	HLT 101		2		
Computer Applications	CIS 101		3		Keyboarding skill of 25 WPM or BUS 101 or CIS 100 recommended
TOTAL GENERAL EDUCATION REQUIREMENTS			43		

General Education Requirements		Credits	Semester Taken	Preferred Courses for the A.A.T.
General Education Requirements		43		
Program Specific Courses	EDU 150	1		See course descriptions section of the catalog for individual course requirements.
	EDU 220	3		These are courses that are required for the A.A.T. degree. Some universities may not accept coursework for transfer for any grade lower than a B in these professional education classes.
	EDU 225	3		
	EDU 250	3		
	EDU 270	3		
Electives	ECO 270			See course descriptions section of the catalog for individual course requirements.
	ENG 250			
	GRY 101			
	HST 120			
	HST 130			
	PHY 101			
	PSY 260			
	PSY 265			
TOTAL CREDIT HOURS REQUIRED FOR THE A.A.T. DEGREE		65		Students must also achieve a minimum cumulative GPA of 2.75 and pass all state-required testing components of the AAT degree. If a student cannot pass the state-required exam, a student may obtain an AA Degree.

ASSOCIATE OF INTERDEPARTMENTAL STUDIES (A.I.S.)

A.I.S. Degree: 62 Hours

The Associate of Interdepartmental Studies degree is designed to provide a foundation of knowledge for students and to allow students to create a course of study that complements their career goals. Although designed as a non-transferrable degree, individual courses required for this degree may transfer, but may not necessarily fulfill the general education requirements at a four-year institution.

Associate of Interdepartmental Studies Requirements		Credits	Semester Taken	Prerequisites
Associate of Interdepartmental Studies (All courses must be 100 level or above)	COM Communication	3		See course descriptions section of the catalog for individual course requirements
	CIS Computer Information Science	3		
	ENG English	3		
	Humanities or Social Science Elective (see catalog elective page)	3		
	MTH Mathematics (excludes TEC 108)	3		
	Science (BCS, BIO, CHM, EGR, PHY)	4		
	PLS 101 (or HST 120 and 130)	3		
	College-level Electives	40		
Total Credit Hours Required for Associate of Interdepartmental Studies		62		Each student must apply for a graduation audit to be eligible to graduate. The graduation audit is initiated by the submission of the Application for Graduation Form. The form is available in Student Services or through AccessOTC

Biological Clinical Science**Certificate:** 30 hours**A.S. Degree:** 62 Hours

This Associate of Science degree program prepares students to transfer to a four-year college or university to major in a health-related profession. Because requirements vary at each four-year college or university, students should check with their faculty advisor or the school to which they intend to transfer to ensure they are taking the appropriate courses.

Biological Clinical Science Certificate Requirements		Credits	Semester Taken	Prerequisites
Certificate of Achievement	BCS 132	3		None
	BCS 165* or BCS 145**	4		None
	BCS 205* or BCS 146**	4		Grade of "C" or better in BCS 165 or BCS 145, and grade of "C" or better in CHM 101 or CHM 160
	BCS 200	4		Grade of "C" or better in BCS 146 or BCS 205 or concurrent enrollment
	CIS 101	3		Keyboarding skill of 25 WPM or BUS 101 or CIS 100 recommended
	COM 100 or COM 105	3		None
	ENG 101	3		Grade of "NC" or better in ENG 050 and RDG 050 or satisfactory score on the English Placement Assessment
	MTH 110 or higher (MTH 128 or MTH 130 is required for degree completion)	3		Grade of "C" or better in MTH 050 or satisfactory score on the Mathematics Placement Assessment
	PSY 110	3		None
Total Credit Hours Required for Biological Clinical Science Certificate of Achievement		30		Students wishing to complete the Certificate of Achievement should submit the Application for Graduation form. The form is available through AccessOTC.
Electives	Elective Courses	12		See course descriptions section of the catalog for individual course prerequisites.
Program Requirements	Humanities Elective - Ethics recommended	3		See course descriptions section of the catalog for individual course prerequisites.
	BCS 210	3		Grade of "C" or better in BCS 205 or BCS 146
	BIO 100 or BIO 160	4		None
	CHM 101 or CHM 160	4		Grade of "C" or better in MTH 050 or satisfactory score on the Mathematics Placement Assessment
	ENG 102 or ENG 150	3		ENG 101
	PLS 101 or HST 120 and HST 130	3		None
Total Credit Hours Required		62		Each student must apply for a graduation audit to be eligible to graduate. The graduation audit is initiated by the submission of the Application for Graduation Form. The form is available in Student Services or through AccessOTC.

* If BCS 165 is taken then the second semester of A&P must be BCS 205.

** If BCS 145 is taken then the second semester of A&P must be BCS 146.

ASSOCIATE OF SCIENCE DEGREE (A.S.)

Biology

A.S. Degree: 62 Hours

This Associate of Science degree program prepares students to transfer to a four-year college or university to major in biology. Because requirements vary at each four-year college or university, students should check with their faculty advisor or the school to which they intend to transfer to ensure they are taking the appropriate courses.

General Education Requirements		Credits	Semester Taken	Prerequisites
Mathematics	MTH 138 or MTH 140	5		See course descriptions section of the catalog for individual course prerequisites.
English	ENG 101	3		Grade of "NC" or better in ENG 050 and RDG 050 or satisfactory score on the Placement Assessments.
	ENG 102 or ENG 150	3		ENG 101
Communication	COM 105	3		None
Humanities	Elective	3		See course descriptions section of the catalog for individual course prerequisites.
Biological Sciences	BIO 160	4		
Physical Sciences	CHM 160	4		
	CHM 161	1		
Social Sciences	PLS 101	3		
	Elective	3		
Computer Applications	CIS 101	3		Keyboarding skill of 25 WPM or BUS 101 or CIS 100 recommended
Total General Education Credits		35		
Electives	Courses numbered 100 or higher	6-8		See course descriptions section of the catalog for individual course prerequisites.
Specific Program Requirements	BIO 170	4		Grade of "C" or better in BIO 160
	BIO 250	4		Grade of "C" or better in BIO 160
	Chemistry Elective—CHM 170 and CHM 171 or CHM 200 or CHM 225* or CHM 242	3-5		See course descriptions section of the catalog for individual course prerequisites.
	PHY 120 or PHY 220	4-5		
	PHY 130 or PHY 222	4-5		
Total Credit Hours Required		62		Each student must apply for a graduation audit to be eligible to graduate. The graduation audit is initiated by the submission of the Application for Graduation Form. The form is available in Student Services or through AccessOTC.

* This is a fall only course

The Associate of Science degree in Chemistry is designed for students who plan to transfer and complete a Bachelor of Science degree at a four-year institution. The degree requirements allow students more flexibility in course selection allowing them to focus on their discipline requirements.

Note: Completion of this degree does not guarantee that all lower-division general education requirements have been met for a baccalaureate degree. In selecting courses for this degree, students are highly encouraged to consult their faculty advisor and the institution to which they intend to transfer to determine if it is an appropriate choice.

General Education Requirements		Credits	Semester Taken	Prerequisites
Mathematics	MTH 140	5		Grade of "C" or better in MTH 138 or equivalent or satisfactory score on the Mathematics Placement Assessment.
English	ENG 101	3		Grade of "NC" or better in ENG 050 and RDG 050 or satisfactory score on the Placement Assessments.
	ENG 102 or ENG 150	3		ENG 101
Communication	COM 105	3		None
Humanities	Elective	3		See course descriptions section of the catalog for individual course prerequisites.
Biological Sciences	BIO 160	4		
Physical Sciences	CHM 160	4		
	CHM 161	1		
Social Sciences	PLS 101	3		
	HST 120 or HST 130	3		None
Total General Education Credits		32		
Electives	Select from CHM 225, CHM 242, CHM 243, CHM 250, CHM 295, ATS 100	12		See course descriptions section of the catalog for individual course prerequisites.
Specific Program Requirements	CHM 170	4		Grade of "C" or better in CHM 160
	CHM 171	1		Grade of "C" or better in CHM 160
	MTH 141	5		Grade of "C" or better in MTH 140
	PHY 120 or PHY 220	4-5		See course descriptions section of the catalog for individual course prerequisites.
	PHY 130 or PHY 222	4-5		Grade of "C" or better in PHY 120 or PHY 220.
Total Credit Hours Required		62		Each student must apply for a graduation audit to be eligible to graduate. The graduation audit is initiated by the submission of the Application for Graduation Form. The form is available in Student Services or through AccessOTC.

ASSOCIATE OF SCIENCE DEGREE (A.S.)

Engineering

Options: Mechanical, Civil, Electrical

Certificate: 30 hours

A.S. Degree: 62 Hours

The Associate of Science degree in Engineering incorporates the essential course work for the first two years of study in any engineering field. Some of the course requirements vary within the engineering departments cooperating in this program. In such cases, students will need to consult with the advisor as to the appropriate class for a particular engineering major. Students should consult with their faculty advisor and the institution to which they intend to transfer to ensure transferability of courses.

Engineering Certificate Requirements		Credits	Semester Taken	Prerequisites
Certificate of Achievement	CHM 160	4		Grade of "C" or better in MTH 110 or equivalent score on the placement assessment.
	CHM 161	1		
	ECO 270 or ECO 275	3		Grade of "NC" or better in MTH 050 or higher or equivalent score on the placement assessment.
	EGR 100	1		None
	ENG 101	3		Grade of "NC" or better in ENG 050 and RDG 050 or satisfactory score on the Placement Assessments
	MTH 140	5		Grade of "C" or better in MTH 138 or equivalent or satisfactory score on the Mathematics Placement Assessment
	MTH 141	5		Grade of "C" or better in MTH 140
	PLS 101 or HST 120 and HST 130	3		See course descriptions section of the catalog for individual course prerequisites
	PHY 220	5		
Total Credit Hours Required for Engineering Certificate of Achievement		30		
General Engineering Program Requirements	EGR 250	4		None
	MTH 240	3		Grade of "C" or better in MTH 141
	MTH 241	3		Grade of "C" or better in MTH 240
	PHY 222	5		Grade of "C" or better in PHY 220
	General Education Electives	*6		See course descriptions section of the catalog for individual course prerequisites.
	Degree Option Courses	11-12		
Total Credit Hours Required for Engineering Degree		62		Each student must apply for a graduation audit to be eligible to graduate. The graduation audit is initiated by the submission of the Application for Graduation Form. The form is available in Student Services or through AccessOTC.

*Selection of course is based on the program of study requirements at the four year transfer institution.

Mechanical Engineering

ENG 102 or ENG 150 or COM 105

EGR 201

CIS 140

MTH 230

Civil Engineering

ATS 100

ENG 102 or ENG 150 or COM 105

EGR 201

PHY 110

Electrical Engineering

ENG 150

COM 105

EGR 204

MTH 230

Nursing—Registered Nursing

A.S.N. Degree: 64 Hours

The Associate of Science in Nursing program is approved by the Missouri State Board of Nursing. The program has received approval by the Missouri Coordinating Board of Higher Education. This program is fully accredited by the National League for Nursing Accrediting Commission. The program is designed as an LPN to RN program that permits the qualifying LPN to complete the RN nursing courses in 36 weeks. Graduates are eligible to apply to write the NCLEX-RN exam to become licensed as a Registered Nurse. Graduates may go to work in hospitals, inpatient and outpatient departments, physician offices, nursing care facilities, home health care services, government agencies, and outpatient care centers. MO State Board of Nursing, PO Box 656, Jefferson City, MO 65102, (573) 751-0681.

Accreditation Commission for Education in Nursing, 3343 Peachtree Road NE, Suite 850, Atlanta, GA 30326, (404) 975-5000.

Associate of Science in Nursing Program Requirements		Credits	Semester Taken	Prerequisites
Pre-Admission Requirements	2 BCS 132 Allied Health Nutrition	3		None
	1 BCS 145 Anatomy and Physiology I	4		Grade of "NC" or better in ENG 050 and grade of "NC" or better in RDG 050 or equivalent score on placement assessment
	1 BCS 146 Anatomy and Physiology II	4		Grade of "C" or better in BCS 145
	2 BCS 200 Microbiology	4		Grade of "C" or better in BIO 160, BCS 115, BCS 146, or BCS 205. Concurrent enrollment in BCS 146 or BCS 205 is allowed.
	1 CHM 101 Introductory Chemistry	4		Grade of "NB" or better in MTH 050 or equivalent score of the placement assessment for entry into MTH 110
	2 ENG 101 Composition I	3		Grade of "NC" or better in ENG 050 and RDG 050 or satisfactory score on the Placement Assessments
	1 MTH 110 Intermediate Algebra	3		Grade of "NB" or "NA" in MTH 050 or satisfactory score on the Mathematics Placement Assessment
	2 PSY 110 Introduction to Psychology	3		None
	Completion of Practical Nursing Program	7		
Total Credit Hours for Pre-admission Requirements		35		
Associate of Science (All courses must be completed with a grade of "C" or better)	ASN 200 Transition to Professional Nursing	2		Admission to ASN Program
	ASN 210 Advanced Nursing Through the Lifespan I	4		See course descriptions section of the catalog for individual course requirements
	ASN 215 Advanced Psychiatric/Mental Health Nursing	2		
	ASN 220 Advanced Nursing Through the Lifespan II	5		
	ASN 225 Advanced Maternal Newborn Nursing	2		
	ASN 230 Advanced Nursing Through the Lifespan II	4		
	ASN 235 Advanced Pediatric Nursing Concepts	2		
	ASN 240 Community Health and Management	2		
	ASN 250 Professional Nursing Integration	3		
	2 PLS 101 American Government and Politics	3		None
Total Credit Hours Required for Associate of Science		64		Each student must apply for graduation and complete the exit assessment to be eligible to graduate. The graduation application is student initiated by submission of the Application for Graduation form. The form is available through AccessOTC.

Note: As required by Missouri law, all degree programs must include instruction in both the U.S. and the Missouri State Constitution. This can be satisfied by either PLS 101 or both HST 120 and HST 130.

1 Must be completed prior to or be enrolled in before "completed application file" deadline

2 Recommended to be completed prior to admission to the ASN program

3 BCS 165 and BCS 205 may be substituted for BCS 145 and BCS 146

ASSOCIATE OF APPLIED SCIENCE DEGREE (A.A.S.)

Accounting and Business Management

Certificate: 33 Hours

A.A.S. Degree: 64 Hours

The Accounting program prepares students with a foundation of coursework in accounting principles, theory and practice, and exposes them to complex problems and relationships in connected fields of business, cost management, tax and economics. A co-op education/internship option in the final semester provides for practical work experience in an office or industry where students can apply the accounting concepts and skills that they have learned.

Accounting Program Requirements		Credits	Semester Taken	Prerequisites
Certificate of Achievement	ACC 120 College Accounting, Part I	3		MTH 105 (or concurrent enrollment) or equivalent score on the placement assessment for entry into MTH 110
	ACC 125 College Accounting, Part II	3		Grade of "C" or better in ACC 120
	ACC 130 Accounting Software Applications	3		Grade of "C" or better in ACC 120
	ACC 135 Payroll Accounting	3		Grade of "C" or better in ACC 120
	BUS 110 Principles of Business	3		None
	BUS 140 Business Communications	3		ENG 101 or concurrent enrollment
	CIS 101 Personal Computer Applications	3		Keyboarding skill of 25 WPM or BUS 101 or CIS 100 recommended
	CIS 105 Spreadsheet Applications	3		CIS 101
	CIS 115 Principles of E-Business	3		Keyboarding skill of 25 WPM recommended
	ENG 101 Composition I	3		Grade of "NC" or better in ENG 050 and RDG 050 or satisfactory score on Placement Assessments
	MTH Elective (MTH 105 or higher)	3		See course descriptions section of the catalog for individual course requirements
Total Credit Hours Required for Certificate of Achievement		33		Student wishing to complete the Certificate of Achievement should submit the Application for Graduation form. The form is available through AccessOTC.
Associate of Applied Science	Certificate of Achievement courses	33		
	ACC 220 Principles of Accounting I	3		MTH 105 or equivalent score on the placement assessment for entry into MTH 110
	ACC 225 Managerial Accounting	3		None
	BUS 150 Principles of Management	3		BUS 110
	BUS 160 Business Law	3		BUS 110
	Communication/English Elective	3		See course descriptions section of the catalog for individual course requirements
	Mathematics Elective (MTH 110 or higher)	3		
	PLS 101 American Government and Politics	3		None
	Related Elective	3		See course descriptions section of the catalog for individual course requirements
	Related Elective	3		
	Science Elective	3-4		
	TEC 285 Occupational Seminar	1		Minimum of 30 hours toward degree program or advisor's approval.
	Exit Exam			See degree audit for course number
Total Credit Hours Required for Associate of Applied Science		64		Each student must apply for graduation and complete the exit assessment to be eligible to graduate. The graduation application is student initiated by submission of the Application for Graduation form. The form is available through AccessOTC.

Note: As required by Missouri law, all degree programs must include instruction in both the U.S. and the Missouri State Constitution. This can be satisfied by either PLS 101 or both HST 120 and HST 130.

Related Electives: May choose courses from the following program areas: ACC • BUS • CIS • ECO

Agriculture

Options: Animal Science, Plant Science, General Agriculture

A.A.S. Degree: 63 Hours

The Associate of Applied Science degree in Agriculture allows students to develop academic abilities and skills associated with the agriculture industry. Students with long-term goals of obtaining a Bachelor of Science degree in any chosen field of Agriculture will benefit from these courses. The student may choose a specific option to pursue within the field of Agriculture. The options include Animal Science, Plant Science or General Agriculture. Prior to beginning a desired option, students should meet with an academic advisor to specify the courses required to meet their desired goals.

Agriculture - Options: Animal Science, Plant Science, General Agriculture		Credits	Semester Taken	Prerequisites
Associate of Applied Science	AGR 100 Introduction to Agriculture	3		See course descriptions section of the catalog for individual course requirements
	BIO 160 General Biology I	4		
	CHM 101 Introductory Chemistry	4		
	CIS 101 Personal Computer Applications	3		
	COM 105 Public Speaking	3		
	ECO 270 Principles of Macroeconomics	3		
	ENG 101 Composition I	3		
	ENG 150 Technical Writing	3		
	HLT 101 Health and Wellness	2		
	Humanities Block I Elective	3		
	MTH 130 College Algebra	3		
	PLS 101 American Government Politics	3		
	SPN 101 Beginning Spanish I	3		
	Option Elective	3-4		
	Option Elective	3-4		
	Option Elective	3-4		
	Option Elective	3-4		
	Option Elective	3-4		
	Option Elective	3-4		
	Exit Exam			See degree audit for course number
Total Credit Hours Required for Associate of Applied Science		63		Each student must apply for graduation and complete the exit assessment to be eligible to graduate. The graduation application is student initiated by submission of the Application for Graduation form. The form is available through AccessOTC.

Note: As required by Missouri law, all degree programs must include instruction in both the U.S. and the Missouri State Constitution. This can be satisfied by either PLS 101 or both HST 120 and HST 130.

Option Electives for Agriculture

Option A: Animal Science	Option B: Plant Science	Option C: General Agriculture
AGR 160	AGR 112	AGR 112
AGR 180	AGR 145	AGR 160
AGR 235	AGR 160	AGR 180
BCS 200	AGR 180	AGR 214
BIO 250	AGR 214	AGR 220
CHM 200	AGR 225	AGR 235
	AGR 235	

ASSOCIATE OF APPLIED SCIENCE DEGREE (A.A.S.)

Agriculture—Turf and Landscape Management

Certificate: 32 Hours

A.A.S. Degree: 63 Hours

This option in the Agriculture program is designed to train people for careers in the land care industry. Job opportunities include a wide range of occupations from residential lawn care to country clubs and from home landscaping to city landscaping and beyond. Extensive lab work and comprehensive class work will prepare students for a lifetime of earning potential. This option is accredited by the Professional Landcare Network (PLANET), 950 Herndon Parkway, Suite 450, Herndon VA 20170, (703) 736-9666

Agriculture - Turf and Landscape Management Program Requirements		Credits	Semester Taken	Prerequisites
Certificate of Achievement	AGR 112 (F) Woody Ornamental Identification	4		None
	AGR 180 (F) Plant and Soil Science	4		
	AGR 185 (S) Irrigation Design, Installation and Maintenance in the Landscape	3		
	AGR 190 (S) Turfgrass Management	4		
	AGR 212 (S) Greenhouse Horticulture	3		
	AGR 214 (F) Landscape Design	4		
	AGR 215 (S) Landscaping Construction and Maintenance	4		
	AGR 220 (S) Turf and Landscape Business Management	3		
	AGR Related Elective	3-4		See course descriptions section of the catalog for individual course requirements
Total Credit Hours Required for Certificate of Achievement		32		Student wishing to complete the Certificate of Achievement should submit the Application for Graduation form. The form is available through AccessOTC.
Associate of Applied Science	Certificate of Achievement courses	32		
	AGR 114 (F) Environmental Stewardship	2		None
	AGR 218 (S) Computer Designs in Landscaping	2		AGR 214 and AGR 185 or concurrent enrollment
	AGR 280 (S) Turf and Landscape Management Capstone	2		Completion of a minimum of 36 credit hours in the Turf/Landscape Management option.
	TEC 285 Occupational Seminar	1		Minimum of 30 hours toward degree program or advisor's approval.
	AGR 290 Co-Operative Education/Internship	3		None
	AGR Related Elective	3-4		See course descriptions section of the catalog for individual course requirements
	CIS 101 Personal Computer Applications	3		Keyboarding skill of 25 WPM or BUS 101 or CIS 100 recommended
	COM 105 Public Speaking	3		None
	ENG 101 Composition I	3		Grade of "NC" or better in ENG 050 and RDG 050 or satisfactory score on the Placement Assessments
	MTH 105 Business Mathematics	3		Grade of "NC" or better in MTH 040 or MTH 045 equivalent or satisfactory score on the Mathematics Placement Assessment
	PLS 101 American Government and Politics	3		None
	PLS 255 Environmental Laws and Regulations	3		
	Exit Exam			See degree audit for course number
Total Credit Hours Required for Associate of Applied Science		63		Each student must apply for graduation and complete the exit assessment to be eligible to graduate. The graduation application is student initiated by submission of the Application for Graduation form. The form is available through AccessOTC.

Note: As required by Missouri law, all degree programs must include instruction in both the U.S. and the Missouri State Constitution. This can be satisfied by either PLS 101 or both HST 120 and HST 130.

(F) - course offered in the fall semester (S) - Course offered in the spring semester

Related Electives: AGR 113 • AGR 145 • AGR 225 • AGR 235

Auto Collision Repair Technology

Certificate: 32 Hours

A.A.S. Degree: 66 Hours

Sheet metal and unibody repair, automotive refinishing, and collision damage estimation are areas of concentration and employment for graduates of the Auto Collision Repair Technology program. Employers include independent body shops, new and used car dealerships, upholstery shops, glass shops, paint and equipment manufacturers and distributors, and insurance companies. The degree program is accredited by the National Automotive Technicians Education Foundation (NATEF), 101 Blue Seal Drive, S.E. Suite 101, Leesburg, VA 20175, (703) 669-6650.

Auto Collision Repair Technology Program Requirements		Credits	Semester Taken	Prerequisites
Certificate of Achievement	ABR 100 Non-Structural Analysis and Repair	4		None
	ABR 110 Paint and Refinishing Preparation	4		
	ABR 113 (F) Damage Repair Metal Welding and Cutting	4		
	ABR 200 (F) Non-structural Analysis and Damage Repair	4		
	ABR 245 (S) Structural Analysis and Dimensioning	4		ABR 100, 113, 200 (ABR 200 may be taken concurrently)
	ABR 248 Refinish Color Application	4		None
	ABR 250 (S) Structural Repair	4		ABR 245
	ABR 255 Paint Detail and Defects	4		None
Total Credit Hours Required for Certificate of Achievement		32		Student wishing to complete the Certificate of Achievement should submit the Application for Graduation form. The form is available through AccessOTC.
Associate of Applied Science	Certificate of Achievement courses	32		
	ABR 260 (F) Plastics and Adhesives	3		None
	ABR 265 (S) Vehicle Control Systems	3		ABR 260
	ABR 270 (S) Estimating and Shop Management	3		ABR 260
	ABR 290 Capstone/Co-op/Internship	3		Completion of at least 30 credit hours in auto collision repair courses and a minimum GPA of 2.0, or advisor's approval.
	Communication Elective	3		See course descriptions section of the catalog for individual course requirements
	ENG 101 Composition I	3		Grade of "NC" or better in ENG 050 or RDG 050 or satisfactory score on the Placement Assessments
	HLT 101 Health and Wellness	2		None
	Mathematics Elective (TEC 108 or MTH 105 or higher)	3		See course descriptions section of the catalog for individual course requirements
	Science Elective	4		
	Social Science Elective	3		
	Social Science Elective	3		
	TEC 285 Occupational Seminar	1		Minimum of 30 hours toward degree program or advisor's approval.
	Exit Exam			See degree audit for course number
Total Credit Hours Required for Associate of Applied Science		66		Each student must apply for graduation and complete the exit assessment to be eligible to graduate. The graduation application is student initiated by submission of the Application for Graduation form. The form is available through AccessOTC.

Note: As required by Missouri law, all degree programs must include instruction in both the U.S. and the Missouri State Constitution. This can be satisfied by either PLS 101 or both HST 120 and HST 130.

(F) - course offered in the fall semester

(S) - Course offered in the spring semester

ASSOCIATE OF APPLIED SCIENCE DEGREE (A.A.S.)

Automotive Technology

Certificate: 32 Hours

A.A.S. Degree: 69 Hours

Under the supervision of certified instructors experienced in the industry, students learn fundamentals of automotive systems design, operation, diagnosis and repair. Classroom concepts and theory are applied in the shop environment where troubleshooting, service procedures, estimating and customer relations are practiced. The automotive industry is changing and growing, with increasing emphasis on safety and electronics. Potential employers include automotive dealerships, independent repair shops, service stations, and product sales and service. The degree program is accredited by the National Automotive Technicians Education Foundation (NATEF), 101 Blue Seal Drive, S.E. Suite 101, Leesburg, VA 20175, (703) 669-6650.

Automotive Technology Program Requirements		Credits	Semester Taken	Prerequisites
Certificate of Achievement	AUM 110 Engine Repair	4		None
	AUM 171 Electrical I	4		
	AUM 215 (F) Steering and Suspension	4		
	AUM 121 Engine Diagnosis and Repair	4		
	AUM 175 (S) Electrical II	4		AUM 171
	AUM 210 (S) Brakes	4		None
	AUM 221 Engine Performance I	4		AUM 121 and AUM 171
	AUM 222 (S) Advanced Engine Performance	4		AUM 221
Total Credit Hours Required for Certificate of Achievement		32		Student wishing to complete the Certificate of Achievement should submit the Application for Graduation form. The form is available through AccessOTC.
Associate of Applied Science	Certificate of Achievement courses	32		
	AUM 135 Manual Drive Train and Axles	4		None
	AUM 185 Heating and Air Conditioning	4		AUM 171
	AUM 233 Automatic Transmission and Trans Axle	4		AUM 171
	AUM 290 Capstone/Co-op/Internship	3		Completion of at least 30 credit hours in automotive technology courses and a minimum GPA of 2.0, or advisor's approval.
	Communication Elective	3		See course descriptions section of the catalog for individual course requirements
	ENG 101 Composition I	3		Grade of "NC" or better in ENG 050 and RDG 050 or satisfactory score on the Placement Assessments
	HLT 101 Health and Wellness	2		None
	Mathematics Elective (TEC 108 or MTH 105 or higher)	3		See course descriptions section of the catalog for individual course requirements
	Science Elective	4		
	Social Science Elective	3		
	Social Science Elective	3		
	TEC 285 Occupational Seminar	1		Minimum of 30 hours toward degree program or advisor's approval.
	Exit Exam			See degree audit for course number
Total Credit Hours Required for Associate of Applied Science		69		Each student must apply for graduation and complete the exit assessment to be eligible to graduate. The graduation application is student initiated by submission of the Application for Graduation form. The form is available through AccessOTC.

Note: As required by Missouri law, all degree programs must include instruction in both the U.S. and the Missouri State Constitution. This can be satisfied by either PLS 101 or both HST 120 and HST 130.

(F) - course offered in the fall semester

(S) - Course offered in the spring semester

Business and Marketing

Certificate: 30 Hours

A.A.S. Degree: 61 Hours

The curriculum for an A.A.S. degree in Business and Marketing is designed to provide a broad, general background in business as well as a foundation in the basics needed for entry-level positions in various business activities: accounting, retailing, marketing or management.

Note: Students wishing to transfer to a four-year college Business program should contact the college to which they wish to transfer to determine the courses appropriate for transfer.

Business and Marketing Program Requirements		Credits	Semester Taken	Prerequisites
Certificate of Achievement	ACC 220 Principles of Accounting I	3		MTH 105 or equivalent score on the placement test for entry into MTH 110
	BUS 110 Principles of Business	3		None
	BUS 130 Principles of Marketing	3		BUS 110
	BUS 140 Business Communications	3		ENG 101 or concurrent enrollment
	BUS 150 Principles of Management	3		BUS 110
	CIS 101 Personal Computer Applications	3		Keyboarding skill of 25 WPM or BUS 101 or CIS 100 Recommended
	ECO 270 Principles of Macroeconomics	3		Grade of "NC" or better in MTH 050 or higher or equivalent score on the mathematics placement assessment.
	ENG 101 Composition I	3		Grade of "NC" or better in ENG 050 and RDG 050 or satisfactory score on the Placement Assessments
	Mathematics Elective (MTH 105 or higher)	3		See course descriptions section of the catalog for individual course requirements
	Related Elective	3		
Total Credit Hours Required for Certificate of Achievement		30		Student wishing to complete the Certificate of Achievement should submit the Application for Graduation form. The form is available through AccessOTC.
Associate of Applied Science	Certificate of Achievement courses	30		
	ACC 225 Managerial Accounting	3		See course descriptions section of the catalog for individual course requirements
	BUS 160 Business Law	3		
	BUS 260 (S) Business Strategy	3		
	BUS 290 Co-Operative Ed/Internship/Elective	3		
	Communication Elective	3		
	PLS 101 American Government and Politics	3		
	Related Elective	3		
	Related Elective	3		
	Related Elective	3		
	Science Elective	3-4		
	TEC 285 Occupational Seminar	1		
	Exit Exam			See degree audit for course number
Total Credit Hours Required for Associate of Applied Science		61		Each student must apply for graduation and complete the exit assessment to be eligible to graduate. The graduation application is student initiated by submission of the Application for Graduation form. The form is available through AccessOTC.

Note: As required by Missouri law, all degree programs must include instruction in both the U.S. and the Missouri State Constitution. This can be satisfied by either PLS 101 or both HST 120 and HST 130.

(F) - course offered in the fall semester (S) - Course offered in the spring semester

Related Electives: BUS 100, CIS 105, BUS 111, ECO 275, BUS 115, PSY 255, BUS 120 (F), PSY 275, BUS 125 (S), BUS 145 (S), BUS 170, BUS 200, BUS 245

Business Technology

Certificate: 31 Hours

The curriculum for a certificate in Business Technology is designed to provide a general background in business and improve skills in current procedures and technology used in the business environment.

Business Technology Certificate Requirements		Credits	Semester Taken	Prerequisites
	BUS 101 Microcomputer Keyboarding	1		None
	BUS 105 Business English	3		
	BUS 110 Principles of Business	3		
	BUS 112 Document Processing	3		BUS 101
	BUS 135 Integrated Business Applications	3		CIS 101, BUS 112, or equivalent or concurrent enrollment
	BUS 140 Business Communications	3		ENG 101 or concurrent enrollment
	BUS 155 Customer Service	2		None
	BUS 165 Administrative Procedures	3		BUS 101 and BUS 112 or concurrent enrollment of BUS 112
	BUS 185 Professional Development	1		None
	ENG 101 Composition I	3		Grade of "NC" or better in ENG 050 and RDG 050 or satisfactory score on the Placement Assessments
	MTH 105 or higher	3		See course descriptions section of the catalog for individual course requirements
	Related Electives- ACC 120, 125, 230, BUS 111, 115, 125, 170, CIS 101, 105, 112	3		
Total Credit Hours Required for Certificate of Achievement		31		Each student must apply for graduation and complete the exit assessment to be eligible to graduate. The graduation application is student initiated by submission of the Application for Graduation form. The form is available through AccessOTC

Chemical Laboratory Technology

CBHE Approval Pending

Certificate: 31 Hours

A.A.S. Degree: 62 Hours

The Associate of Applied Science degree in Chemical Laboratory Technology incorporates the essential course work to prepare students for entry level positions within a science lab. Lab technicians are valuable members of research, development and production teams. A majority of chemical technicians are involved in laboratory work such as product development, chemical and physical testing, and analysis. Technical sales, writing and advertising are other areas of employment open to a skillful chemical technician.

Chemical Laboratory Technology Program Requirements		Credits	Semester Taken	Prerequisites
Certificate of Achievement	ATS 100 Introduction to Scientific Research	1		None
	ATS 105 Applied Biology	3		
	ATS 110 Applied Physics for Scientists	4		
	ATS 112 Applied Environmental Science	3		
	ATS 115 Applied General Chemistry	5		
	ATS 120 Applied Organic Chemistry	5		
	CLT 100 Introduction to Analytical Lab Techniques	2		
	CLT 110 Organic Lab Techniques	2		
	CLT 120 Introduction to Microbiology Lab	2		
	CLT 125 Hazardous Waste Management	2		
	CLT 135 Biochemical Lab Techniques	2		
Total Credit Hours Required for Certificate of Achievement		31		Student wishing to complete the Certificate of Achievement should submit the Application for Graduation form. The form is available through AccessOTC.
Associate of Applied Science	Certificate of Achievement courses	31		
	ATS 101 Scientific Math	1		
	ATS 200 Internship/Research	6		
	CLT 105 Advanced Analytical Techniques	2		
	CLT 115 Advanced Organic Lab Techniques	2		
	CLT 130 Food Science Techniques	2		
	ENG 101 Composition I	3		Grade of "NC" or better in ENG 050 and RDG 050 or satisfactory score on the Placement Assessments.
	ENG 150 Technical Writing	3		ENG 101
	MTH 110 Intermediate Algebra	3		Grade of "NB" or better in MTH 050 or satisfactory score on the Mathematics Placement Assessment.
	PLS 101 American Government and Politics	3		None
	PSY 110 Introduction to Psychology	3		None
	PSY 210 Research Methods for Behavioral Science	3		PSY 110, ENG 101, MTH 105 or higher
Total Credit Hours Required for Associate of Applied Science		62		Each student must apply for graduation. The graduation application is student initiated by submission of the Application for Graduation form. The form is available through AccessOTC.

Note: As required by Missouri law, all degree programs must include instruction in both the U.S. and the Missouri State Constitution. This can be satisfied by either PLS 101 or both HST 120 and HST 130.

ASSOCIATE OF APPLIED SCIENCE DEGREE (A.A.S.)

Computer Information Science

Certificate: 30 Hours

Certificate of Specialization: 15-18 Hours

A.A.S. Degree: 62 Hours

The Computer Information Science program prepares you to enter many of the growing and fast-paced fields of Information Technology. Students may choose courses to tailor their educational experience to prepare them for a variety of career paths, including software development, database administration, web development, video game design and client support.

Computer Information Science Program Requirements		Credits	Semester Taken	Prerequisites
Certificate of Achievement	CIS 101 Personal Computer Application	3		Keyboarding skill of 25 WPM or BUS 101 or CIS 100 Recommended
	CIS 115 Principles of E-Business	3		Keyboarding skill of 25 WPM recommended
	CIS 120 Problem Solving and Programming Concepts	3		Grade of "NB" or better in MTH 050 or equivalent score on the placement test for entry into MTH 110 and keyboarding skill of 25 wpm recommended
	CIS 130 (S) Web Site Development I	3		CIS 101 and CIS 115
	ACC 120 College Accounting, Part I (or ACC 220)	3		MTH 105 (or concurrent enrollment) or equivalent score on the placement test for entry into MTH 110
	Beginning Programming Language ¹	3		See course descriptions section of the catalog for individual course requirements
	Communication/English Elective	3		
	ENG 101 Composition I	3		Grade of "NC" or better in ENG 050 and RDG 050 or satisfactory score on the Placement Assessments
	Mathematics Elective (MTH 110 or higher)	3		See course descriptions section of the catalog for individual course requirements
	Related Elective	3		
Total Credit Hours Required for Certificate of Achievement		30		Student wishing to complete the Certificate of Achievement should submit the Application for Graduation form. The form is available through AccessOTC.
Associate of Applied Science	Certificate of Achievement courses	30		
	Beginning Programming Language ¹	3		See course descriptions section of the catalog for individual course requirements
	Advanced Programming Language ¹	3		
	CIS 131 (F) Web Site Development II	3		Grade of "C" or better in CIS 120 and a grade of "C" or better in CIS 130
	CIS 230 (S) Systems Analysis and Design	3		Grade of "C" or better in CIS 140, CIS150, CIS 170 or concurrent enrollment
	CIS 250 (F) Database and Query	3		Grade of "C" or better in CIS 140, CIS 150, CIS 170
	CIS 260 (S) ¹ Software Engineering Project	3		Grade of "C" or better in CIS 250 and a grade of "C" or better in either CIS 151 or 171
	CIS 290 Co-Operative Ed/Intern/Related Elective	3		Completion of 30 credit hours and 2.0 GPA or advisor's approval.
	PLS 101 American Government and Politics	3		None
	Science Elective	4		See course descriptions section of the catalog for individual course requirements
	Related Elective	3		
	TEC 285 Occupational Seminar	1		Minimum of 30 hours toward degree program or advisor's approval.
	Exit Exam			See degree audit for course number
Total Credit Hours Required for Associate of Applied Science		62		Each student must apply for graduation and complete the exit assessment to be eligible to graduate. The graduation application is student initiated by submission of the Application for Graduation form. The form is available through AccessOTC.

Note: As required by Missouri law, all degree programs must include instruction in both the U.S. and the Missouri State Constitution. This can be satisfied by either PLS 101 or both HST 120 and HST 130.

(F) - course offered in the fall semester (S) - Course offered in the spring semester • ¹All students are required to take two beginning and one advanced course in programming language

Beginning Programming Language Courses: CIS 150, CIS 170 and CIS 140 • Advanced Programming Language Courses: CIS 151 and CIS 171

Related Electives Any course from CIS 101 or higher, BUS, NET, GDT or from ACC 125, EMP 218 or MTH 130 or higher

(CONTINUED ON NEXT PAGE)

Computer Information Science

Certificate: 30 Hours

Certificate of Specialization: 15-18 Hours

A.A.S. Degree: 62 Hours

Computer Information Science Computer Programming Certificate of Specialization Requirements		Credits	Semester Taken	Prerequisites
Certificate of Specialization Computer Programming	CIS 120 Problem Solving and Programming Concepts	3		Grade of "NB" or better in MTH 050 or equivalent score on the placement test for entry into MTH 110 and keyboarding skill of 25 wpm recommended
	Beginning Programming Language ¹	3		See course descriptions section of the catalog for individual course requirements
	CIS 230 System Analysis & Design	3		Grade of "C" or better in CIS 140, CIS150, CIS 170 or concurrent enrollment
	CIS 250 (F) Database and Query	3		Grade of "C" or better in CIS 140, CIS 150, CIS 170
	Advanced Programming Language ¹	3		See course descriptions section of the catalog for individual course requirements
Total Credit Hours Required for Certificate of Specialization		15		

¹All students are required to take one beginning and one advanced course in programming language Beginning Programming Language Courses: CIS 150, CIS 170 and Advanced Programming Language Courses: CIS 151 and CIS 171

Computer Information Science Video Game Development Certificate of Specialization Requirements		Credits	Semester Taken	Prerequisites
Certificate of Specialization Video Game Development	CIS 120 Problem Solving and Programming Concepts	3		Grade of "NB" or better in MTH 050 or equivalent score on the placement test for entry into MTH 110 and keyboarding skill of 25 wpm recommended
	CIS 125 Introduction to Computer Game Development	3		None
	Beginning Programming Language ¹	3		See course descriptions section of the catalog for individual course requirements
	EMP 216 3-D Animation	4		None
	CIS 220 Game Development	3		Grade of "C" or better in CIS 125 and Grade of "C" or better in CIS 150 or CIS 170
Total Credit Hours Required for Certificate of Specialization		16		

¹All students are required to take one beginning programming language Beginning Programming Language Courses: CIS 140, CIS 150, CIS 170

Computer Information Science Web Development Certificate of Specialization Requirements		Credits	Semester Taken	Prerequisites
Certificate of Specialization Web Development	CIS 115 Principles of E-Business	3		Keyboarding skill of 25 wpm recommended
	CIS 120 Problem Solving and Programming Concepts	3		Grade of "NB" or better in MTH 050 or equivalent score on the placement test for entry into MTH 110 and keyboarding skill of 25 wpm recommended
	CIS 130 (S) Web Site Development I	3		CIS 101 and CIS 115
	CIS 150 (S) C# Programming I	3		Grade of "C" or better in CIS 120
	CIS 131(F) Web Site Development II	3		Grade of "C" or better in CIS 120 and CIS 130
	CIS 235 (S) Web Site Development III	3		Grade of "C" or better in CIS 150
Total Credit Hours Required for Certificate of Specialization		18		

ASSOCIATE OF APPLIED SCIENCE DEGREE (A.A.S.)

Construction Technology

Certificate: 32 Hours

A.A.S. Degree: 62 Hours

Depth of training for entry into the construction occupation depends on the specific needs of employers. In this program, theory and many hours of practice are combined to lead to the Associate of Applied Science degree or certificate. A broad background allows the student to meet the needs of various graduate employment goals. This program is recognized by the Associated General Contractors of America, 632 W. 39th Street, Kansas City, MO 64111.

Construction Technology Program Requirements		Credits	Semester Taken	Prerequisites
Certificate of Achievement	CST 105 Introduction to Construction	4		Must be taken concurrently with another CST course
	CST 135 (F) Construction Carpentry I	4		CST 105 or concurrent enrollment
	CST 140 Cabinetmaking and Millwork I	4		CST 105 or concurrent enrollment
	CST 150 Concrete and Forms	4		CST 105 or concurrent enrollment
	CST 210 Interior Finishes	4		CST 105 or concurrent enrollment
	CST 235 Construction Carpentry II	4		CST 105 or concurrent enrollment
	CST 239 Construction Trim Carpentry	4		None
	CST 250 Exterior Finishes	4		CST 105 or concurrent enrollment
Total Credit Hours Required for Certificate of Achievement		32		Student wishing to complete the Certificate of Achievement should submit the Application for Graduation form. The form is available through AccessOTC.
Associate of Applied Science	Certificate of Achievement courses	32		
	CST 115 Printreading for Construction	4		None
	CST 280 Fundamentals of Crew Leadership (or CST 281)	3		See course descriptions section of the catalog for individual course requirements.
	CST 290 Co-Operative Education/Internship	3		Completion of 30 credit hours and 2.0 GPA or advisor's approval. Please see the Department Chair of the specific program area for application.
	COM 105 Public Speaking	3		None
	ENG 101 Composition I	3		Grade of "NC" or better in ENG 050 and RDG 050 or satisfactory score on the Placement Assessments.
	Lab Science Elective (PHY 140 Preferred)	4		See course descriptions section of the catalog for individual course requirements.
	BUS 110 Principles of Business	3		
	PLS 101 American Government and Politics	3		None
	TEC 108 Applied Technical Mathematics (or MTH 110)	3		
	TEC 285 Occupational Seminar	1		Minimum of 30 hours toward degree program or advisor's approval.
	Exit Exam			See degree audit for course number
Total Credit Hours Required for Associate of Applied Science		62		Each student must apply for graduation and complete the exit assessment to be eligible to graduate. The graduation application is student initiated by submission of the Application for Graduation form. The form is available through AccessOTC.

Note: As required by Missouri law, all degree programs must include instruction in both the U.S. and the Missouri State Constitution. This can be satisfied by either PLS 101 or both HST 120 and HST 130.

(F) - course offered in the fall semester (S) - Course offered in the spring semester

Related Electives

Any related course from the following programs: BUS, CIS, CST, DDT, HRA, IMT, or WLD

Program Electives: CST 170, CST 240, CST 270, CST 275

Apprenticeship Industrial Technology—Construction Option

A.A.S. Degree: 66 Hours

The Apprenticeship Industrial Technology program will provide the opportunity for journey-level trades people to develop general education, managerial and technical skills needed to advance in their chosen career, typically management level. Many companies are requiring their management team to have a degree above the high school level and apprenticeship training. The AIT A.A.S degree would give a qualified trades person the opportunity to advance their education without repeating the trades classes that they would already be proficient in.

Apprenticeship Industrial Technology - Construction Option Program Requirements		Credits	Semester Taken	Prerequisites
Journeyman Apprenticeship	Credit by Examination	30		
	Federally approved apprenticeship program that contains a minimum of 640 clock hours of classroom instruction and 5600 clock hours of on-the-job training. Transcribed upon completion of 15 hours of OTC coursework and documentation of certificate and/or journeyman card for the approved craft			
Associate of Applied Science	CST 115 Printreading for Construction	4		See course descriptions section of the catalog for individual course requirements
	CST 265 Construction Technology Capstone	4		
	CST 280 Fundamentals of Crew Leadership	3		
	CST 281 Project Supervisor	3		
	ENG 101 Composition I	3		
	PLS 101 American Government and Politics	3		
	BUS 110 Principles of Business	3		
	COM 105 Public Speaking	3		
	TEC 108 Applied Technical Mathematics (or MTH 110)	3		
	BUS 150 Principles of Management	3		
	Lab Science Elective (PHY 140 preferred)	4		
	Exit Exam			See degree audit for course number
Total Credit Hours Required for Associate of Applied Science		66		Each student must apply for graduation and complete the exit assessment to be eligible to graduate. The graduation application is student initiated by submission of the Application for Graduation form. The form is available through AccessOTC.

Note: As required by Missouri law, all degree programs must include instruction in both the U.S. and the Missouri State Constitution. This can be satisfied by either PLS 101 or both HST 120 and HST 130.

ASSOCIATE OF APPLIED SCIENCE DEGREE (A.A.S.)

Culinary Arts

Option: Baking and Pastry

Baking Arts Certificate: 33 Hours

A.A.S. Degree: 67 Hours

The food service industry is the focus of the Culinary Arts A.A.S. degree program. Course offerings in food preparation, baking, pastries, purchasing, food safety and sanitation, along with supervision, combine theory and concept with demonstrations by chefs and hands-on practice. This program is accredited by the American Culinary Federation Education Foundation Accrediting Commission (ACFEFAC), 180 Center Place Way, St. Augustine, FL 32095, (904) 824-4468.

Culinary Arts - Option: Baking and Pastry Program Requirements		Credits	Semester Taken	Prerequisites
Certificate of Achievement: Baking Arts	CUL 101 Introduction to Food Prep and Theory	3		HSM 115 or concurrent enrollment
	CUL 121 Introduction to Baking and Pastry	3		HSM 115 or concurrent enrollment, or Department Chair approval
	CUL 130 European Pastries and Classical Desserts	3		Grade of "C" or better in CUL 121; HSM 115
	CUL 150 Quick Breads and Yeast Breads	3		Grade of "C" or better in CUL 121; HSM 115
	CUL 160 Cake Decorating Fundamentals	3		Grade of "C" or better in CUL 121; HSM 115
	CUL 170 Chocolate, Sugar, and Confections	3		Grade of "C" or better in CUL 121; HSM 115
	HSM 115 Safety and Sanitation	3		None
	HSM 125 Purchasing and Product Identification	3		
	COM 105 Public Speaking	3		
	MTH 105 Business Mathematics	3		Grade of "NC" or better in MTH 040 or MTH 045 or equivalent or satisfactory score on the Mathematics Placement Assessment
	ENG 101 Composition I	3		Grade of "NC" or better in ENG 050 and RDG 050 or satisfactory score on the Placement Assessments
Total Credit Hours Required for Certificate of Achievement		33		Student wishing to complete the Certificate of Achievement should submit the Application for Graduation form. The form is available through AccessOTC.
Associate of Applied Science	Certificate of Achievement courses	33		
	HSM 290 Culinary Arts/Hospitality Management Internship	3		Completion of 30 credit hours and 2.0 GPA and approval of department chair
	HSM 101 Introduction to the Hospitality Industry	3		None
	HSM 215 Dining Room Management	4		HSM 125, Grade of "C" or better in HSM 101, and CUL 101
	HSM 225 Marketing in the Hospitality Industry	3		Grade of "C" or better in HSM 101
	HSM 251 Menu Design and Food Service Management	3		Grade of "C" or better in HSM 101, HSM 125, and CUL 101
	HSM 270 Supervisory Management	3		HSM 125, Grade of "C" or better in HSM 101
	BIO 135 Nutrition for Living	3		None
	PLS 101 American Government and Politics	3		
	Related Elective	2		
	Related Elective	3		See course descriptions section of the catalog for individual course requirements
	Social Science Elective	3		
	TEC 285 Occupational Seminar	1		
	Exit Exam			See degree audit for course number
Total Credit Hours Required for Associate of Applied Science		67		Each student must apply for graduation and complete the exit assessment to be eligible to graduate. The graduation application is student initiated by submission of the Application for Graduation form. The form is available through AccessOTC.

Note: As required by Missouri law, all degree programs must include instruction in both the U.S. and the Missouri State Constitution. This can be satisfied by either PLS 101 or both HST 120 and HST 130.

Related Electives

BUS, CHM, ECO, PSY 110 or higher, CIS, CUL, HSM, or any world language

Culinary Arts

A.A.S. Degree: 67 Hours

The food service industry is the focus of the Culinary Arts A.A.S. degree program. Course offerings in food preparation, baking, pastries, purchasing, food safety and sanitation, along with supervision, combine theory and concept with demonstrations by chefs and hands-on practice. This program is accredited by the American Culinary Federation Education Foundation Accrediting Commission (ACFEFAC), 180 Center Place Way, St. Augustine, FL 32095, (904) 824-4468.

Culinary Arts Option A - Culinary Arts Program Requirements		Credits	Semester Taken	Prerequisites
Associate of Applied Science	CUL 101 Introduction to Food Prep and Theory	3		HSM 115 or concurrent enrollment
	CUL 102 Meat, Seafood, and Poultry ID and Fabrication	3		None
	CUL 103 Garde Manger	3		
	CUL 121 Introduction to Baking and Pastry	3		HSM 115 or concurrent enrollment, or Department Chair approval
	CUL 201 Contemporary Cuisine and Plate Presentation	8		CUL 102, 103, HSM 125 and grade of "C" or better in CUL 101 and CUL 121
	CUL 203 World Cuisine	3		CUL 102, 103 and grade of "C" or better in CUL 101
	HSM 290 Culinary Arts/Hospitality Management Internship	3		Completion of 30 credit hours and 2.0 GPA and approval of department chair
	HSM 101 Introduction to the Hospitality Industry	3		None
	HSM 115 Safety and Sanitation	3		
	HSM 125 Purchasing and Product Identification	3		
	HSM 215 Dining Room Management	4		HSM 125 and a grade of "C" or better in HSM 101 and CUL 101
	HSM 248 Bar and Beverage Management	3		Grade of "C" or better in HSM 101
	HSM 251 Menu Design and Food Service Management	3		HSM 125 and a grade of "C" or better in HSM 101 and CUL 101
	HSM 270 Supervisory Management	3		Grade of "C" or better in HSM 101
	BIO 135 Nutrition for Living	3		None
	COM 105 Public Speaking	3		
	ENG 101 Composition I	3		Grade of "NC" or better in ENG 050 and RDG 050 or satisfactory score on the Placement Assessments
	MTH 105 Business Math (or higher)	3		Grade of "NC" or better in MTH 040 or MTH 045 or equivalent or satisfactory score on the Mathematics Placement Assessment
	PLS 101 American Government and Politics	3		
	Social Science Elective	3		See course descriptions section of the catalog for individual course requirements
	TEC 285 Occupational Seminar	1		Minimum of 30 hours toward degree program or advisor's approval
	Exit Exam			See degree audit for course number
Total Credit Hours Required for Associate of Applied Science		67		Each student must apply for graduation and complete the exit assessment to be eligible to graduate. The graduation application is student initiated by submission of the Application for Graduation form. The form is available through AccessOTC.

Note: As required by Missouri law, all degree programs must include instruction in both the U.S. and the Missouri State Constitution. This can be satisfied by either PLS 101 or both HST 120 and HST 130.

Related Electives: BUS, CHM, ECO, PSY 110 or higher, CIS, CUL, HSM, or any world language

ASSOCIATE OF APPLIED SCIENCE DEGREE (A.A.S.)

Dental Assisting Program - Traditional or Hybrid Track

Certificate: 38 Hours

A.A.S. Degree: 62 Hours

The Dental Assisting Program has been granted Accreditation by the Commission of Dental Accreditation (CODA) of the American Dental Association (ADA). CODA is located at 211 E. Chicago Ave., Chicago, IL 60611. CODA telephone number is (312) 621-8099. Graduates of the program are eligible to apply to sit for the Dental Assisting National Board (DANB). After successful completion of this exam, the individual will be a Certified Dental Assistant (CDA).

Students are offered two different tracks (traditional or hybrid) in the Dental Assisting Program. The Hybrid Track provides a significant portion of the learning activities online. Time traditionally spent in the classroom is reduced, but not eliminated. Students are required to attend laboratory classes on campus and outside clinical sites. These new track options allow increased accessibility to the program for all interested individuals and help satisfy increased demand for this valuable program.

The Dental Assisting Program offers courses of study leading to a Certificate and/or an Associate of Applied Science in Dental Assisting. Students may take the Certificate of Achievement courses only after they have been admitted into the program. A separate application process is required for acceptance into this program.

A new class begins each fall and spring semester. The application deadline for the program is June 15 for the Traditional Track and October 15 for the Hybrid Track. Contact the Allied Health Office, or visit otc.edu/alliedhealth for an application packet.

Commission on Dental Accreditation (CODA) of the American Dental Association, 211 E. Chicago Ave, Chicago, IL 60611, (312) 621-8099.

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Dental Assisting Program - Traditional or Hybrid Track

Certificate: 38 Hours

A.A.S. Degree: 62 Hours

Dental Assisting - Traditional Track Program Requirements		Credits	Semester Taken	Prerequisites
Certificate of Achievement	DAS 101 Chairside Assisting I	4		Admission to the Dental Assisting Program (Program begins in Fall and Spring Semester)
	DAS 102 Infection Control	2		
	DAS 103 Chairside Assisting II	3		
	DAS 105 Dental Language	1		
	DAS 114 Operative Dentistry	3		See course descriptions section of the catalog for individual course requirements
	DAS 115 Dental Science and Health	2		
	DAS 120 Dental Materials I	4		
	DAS 123 Dental Materials II Lab	4		
	DAS 130 Dental Radiology I	3		
	DAS 132 Dental Radiology II	2		
	DAS 150 Dental Office Procedures	1		
	DAS 191 Dental Clinic Practicum I	3		
	DAS 192 Dental Clinic Practicum II	3		
	COM 100 Intro to Communication	3		
Total Credit Hours Required for Certificate of Achievement		38		Student wishing to complete the Certificate of Achievement should submit the Application for Graduation form. The form is available through AccessOTC.
Associate of Applied Science	Certificate of Achievement courses	38		
	ENG 101 Composition I	3		Grade of "NC" or better in ENG 050 and RDG 050 or satisfactory score on the Placement Assessments
	Elective (any course 100 level or above)	3		See course descriptions section of the catalog for individual course requirements
	Elective (any course 100 level or above)	3		
	Mathematics Elective (MTH 105 or higher)	3		
	HLT-101 Health and Wellness	2		
	Science Elective	4		
	Social Science Elective	3		
	Social Science Elective	3		
Total Credit Hours Required for Associate of Applied Science		62		Each student must apply for graduation to be eligible to graduate. The graduation application is student initiated by submission of the Application for Graduation form. The form is available through AccessOTC.

Note: As required by Missouri law, all degree programs must include instruction in both the U.S. and the Missouri State Constitution. This can be satisfied by either PLS 101 or both HST 120 and HST 130.

Dental Hygiene

A.A.S. Degree: 89 Hours

Dental Hygiene practice includes: oral prophylaxis (cleaning); exposing, processing, and mounting radiographs; collecting and evaluating medical history information; performing head and neck examinations; periodontal assessment and non-surgical therapy; applying preventive agents; application of desensitizing and antimicrobial agents; and administering local anesthesia and nitrous oxide analgesia.

Dental Hygiene employment opportunities include general practice and specialty dental offices; federal, state, county, and city health clinics; hospitals; long-term care facilities; industrial clinics; the armed services; research institutions; and educational settings.

A separate application process is required for acceptance into the Dental Hygiene program; the application deadline is May 30. A new class is selected to begin each fall semester. Upon acceptance, the student may take the "program specific courses." The Dental Hygiene program is a five-semester program which prepares the student for their national and state licensure examinations. Contact the Allied Health office or visit otc.edu/alliedhealth for an application packet.

The Dental Hygiene program is accredited by the Commission on Dental Accreditation (CODA) of the American Dental Association (ADA), 211 E. Chicago Ave., Chicago, IL 60611, (312) 621-8099

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Dental Hygiene

A.A.S. Degree: 89 Hours

Dental Hygiene - Program Requirements		Credits	Semester Taken	Prerequisites
Pre-Admission Requirements	BCS 165 Human Anatomy (or BCS 145)	4		See course descriptions section of the catalog for individual course requirements.
	BCS 200 Microbiology	4		Grade of "C" or better in BIO 160, BCS 115, BCS 146 or BCS 205. Concurrent enrollment in BCS 146 or BCS 205 is allowed.
	BCS 205 Human Physiology (or BCS 146)	4		Grade of "C" or better in BCS 165 and a grade of "C" or better in CHM 101
	CHM 101 Introductory Chemistry	4		Grade of "NB" or better in MTH 050 or equivalent score of the placement assessment for entry into MTH 110
	MTH 110 Intermediate Algebra	3		Grade of "NB" or "NA" in MTH 050 or satisfactory score on the Mathematics Placement Assessment
Total Credit Hours for Pre-admission Requirements		19		
Associate of Applied Science	DHY 100 Foundations of Dental Hygiene	2		See course descriptions section of the catalog for individual course requirements
	DHY 101 Introduction to Dental Lab	3		
	DHY 105 Orofacial Anatomy	2		
	DHY 110 Oral Histology and Embryology	2		
	DHY 150 Dental Hygiene I	2		
	DHY 152 Dental Hygiene I - Pre Clinic Lab	2		
	DHY 153 Dental Hygiene I Clinic	2		
	DHY 155 Pharmacology for Dental Hygienist	2		
	DHY 160 Introduction to Periodontology	2		
	DHY 200 Dental Hygiene II - Pain Mgmt	2		
	DHY 201 Dental Hygiene II-Clinic	2		
	DHY 205 Dental Hygiene III	2		
	DHY 206 Dental Hygiene III - Clinic	5		
	DHY 210 Oral Pathology	2		
	DHY 215 Community Dental Health	2		
	DHY 250 Dental Hygiene IV	2		
	DHY 251 Dental Hygiene IV Clinic	5		
	DHY 260 Legal Issues and Dental Ethics	1		
	DAS 102* Infection Control	2		These courses are required for those who did not graduate from a CODA accredited Dental Assisting Program within the past five years.
	DAS 120* Dental Materials I	3		
	DAS 130* Dental Radiology I	3		
	DAS 132* Dental Radiology II	2		
	BCS 132 Allied Health Nutrition	3		None
	COM 100 Intro to Communication	3		
	ENG 101 Composition I	3		Grade of "NC" or better in ENG 050 and RDG 050 or satisfactory score on the Placement Assessments
	PSY 110 Introduction to Psychology	3		None
	SOC 101 Introduction to Sociology	3		
	PLS 101 American Government and Politics	3		
Total Credit Hours Required for Associate of Science		89		Each student must apply for graduation to be eligible to graduate. The graduation application is student initiated by submission of the Application for Graduation form. The form is available through AccessOTC.

Note: As required by Missouri law, all degree programs must include instruction in both the U.S. and the Missouri State Constitution. This can be satisfied by either PLS 101 or both HST 120 and HST 130.

*Can be taken as part of the Dental Assisting Program

ASSOCIATE OF APPLIED SCIENCE DEGREE (A.A.S.)

Diesel Technology

Certificate: 32 Hours

A.A.S. Degree: 64 Hours

The Diesel Technology program is an ASE (Automotive Service Excellence) master certified program that focuses on medium and heavy duty trucks. The classes offered are in the eight ASE areas: diesel engines, drive trains, brakes, steering and suspension, electrical and electronics, preventive maintenance, gas engines, and heating and air conditioning. The curriculum follows the recommended tasks that will give the students the skills to be an entry level mechanic. The degree program is accredited by the National Automotive Technicians Education Foundation (NATEF), 101 Blue Seal Drive, S.E. Suite 101, Leesburg, VA 20175, (703) 669-6650

Diesel Technology Program Requirements		Credits	Semester Taken	Prerequisites
Certificate of Achievement	DSL 105 (F) Diesel Engine Repair	4		None
	DSL 112 (S) Diesel Brakes	4		
	DSL 115 (F) Diesel Preventive Maintenance	4		
	DSL 171 (F) Electrical I	4		
	DSL 175 Electrical II	4		DSL 171
	DSL 205 (S) Advanced Diesel Engines	4		None
	DSL 215 (S) Suspension and Steering	4		
	DSL 235 (S) Heavy Duty Drives	4		
Total Credit Hours Required for Certificate of Achievement		32		Student wishing to complete the Certificate of Achievement should submit the Application for Graduation form. The form is available through AccessOTC.
Associate of Applied Science	Certificate of Achievement courses	32		
	DSL 185 Heating and Air Conditioning	4		None
	DSL 232 (S) Diesel Diagnostics and Repair	4		DSL 105, DSL 171, and DSL 205
	DSL 290 Capstone/Co-op/Internship/Elective	3		Completion of at least 30 credit hours in Diesel Technology courses and a minimum GPS of 2.0, or advisors approval
	ENG 101 Composition I	3		Grade of "NC" or better in ENG 050 and RDG 050 or satisfactory score on the Placement Assessments
	TEC 285 Occupational Seminar	1		Minimum of 30 hours toward degree program or advisor's approval.
	Communication Elective	3		See course descriptions section of the catalog for individual course requirements
	Mathematics Elective (TEC 108 or MTH 105 or higher)	3		
	Science Elective	4		
	Related Elective (May use Commercial Driving Cert.)	4		
	Social Science Elective	3		
	Exit Exam			See degree audit for course number
Total Credit Hours Required for Associate of Applied Science		64		Each student must apply for graduation and complete the exit assessment to be eligible to graduate. The graduation application is student initiated by submission of the Application for Graduation form. The form is available through AccessOTC.

Note: As required by Missouri law, all degree programs must include instruction in both the U.S. and the Missouri State Constitution. This can be satisfied by either PLS 101 or both HST 120 and HST 130.

(F) - course offered in the fall semester

(S) - Course offered in the spring semester

Drafting and Design Technology

Certificate: 32 Hours

A.A.S. Degree: 62 Hours

The outlook for competent drafters is expected to increase faster than the average occupation since all new products and buildings require drawings and specifications to manufacture, build and assemble. This program provides the student with the necessary skills and knowledge to obtain employment as a designer/drafter in a manufacturing, civil, structural or architectural environment. The application of drafting and design standards and skills will be examined with the study of basic to advanced concepts in spatial relationships utilizing a computer aided drafting system to complete projects.

Drafting and Design Technology Program Requirements		Credits	Semester Taken	Prerequisites
Certificate of Achievement	DDT 100 Fundamentals of Drafting	4		None
	DDT 110 Mechanical Dimensioning and Tolerancing	4		
	DDT 150 (S) Descriptive Geometry and 2D CAD	4		DDT 100
	DDT 160 (S) Residential Architectural Drafting	4		DDT 100
	DDT 200 (F) Production Design Drafting	4		Grade of "C" or better in DDT 110 or EGR 100 or concurrent enrollment
	DDT 210 (F) Structural Steel Detailing and Drafting	4		DDT 100
	DDT 250 (S) Machine Design Drafting	4		DDT 200
	DDT 260 (S) Commercial Architectural Drafting	4		DDT 100
Total Credit Hours Required for Certificate of Achievement		32		Student wishing to complete the Certificate of Achievement should submit the Application for Graduation form. The form is available through AccessOTC.
Associate of Applied Science	Certificate of Achievement courses	32		
	DDT 115 Manufacturing Processes and Materials	4		None
	DDT 270 (S) Civil Engineering Drafting	4		DDT 100
	DDT 290 Co-Operative Ed/Intern/Related elective	2-3		Completion of 30 credit hours and 2.0 GPA or advisor's approval. Please see Department Chair of the specific program area for application
	CIS 101 Personal Computer Applications	3		Keyboarding skill of 25 WPM or BUS 101 or CIS 100 recommended
	COM 105 Public Speaking	3		None
	ENG 101 Composition I	3		Grade of "NC" or better in ENG 050 and RDG 050 or satisfactory score on the Placement Assessments
	MTH 110 Intermediate Algebra (or higher)	3		Grade of "NB" or "NA" in MTH 050 or MTH 055 or equivalent or satisfactory score on the Mathematics Placement Assessment
	Physical Science Elective (CHM 101, PHY 105, PHY 120, PHY 140)	4		See course descriptions section of the catalog for individual course requirements
	PLS 101 American Government and Politics	3		
	TEC 285 Occupational Seminar	1		Minimum of 30 hours toward degree program or advisor's approval.
	Exit Exam			See degree audit for course number
Total Credit Hours Required for Associate of Applied Science		62		Each student must apply for graduation and complete the exit assessment to be eligible to graduate. The graduation application is student initiated by submission of the Application for Graduation form. The form is available through AccessOTC.

Note: As required by Missouri law, all degree programs must include instruction in both the U.S. and the Missouri State Constitution. This can be satisfied by either PLS 101 or both HST 120 and HST 130.

Related Electives: May choose courses from the following program area: CST, DDT, HRA, MTT, or WLD

Early Childhood Development

Certificate: 37 Hours

A.A.S. Degree: 66 Hours

One of the fastest growing industries in the United States is the child care field. Children's participation rates in early childhood programs continue to increase but national shortages in quality early childhood care givers and programs are a growing concern. The quality of children's care significantly contributes to children's school readiness and an educated staff is the link between quality programs and positive outcomes for children and families. The increasing need for educated care providers can lead to a rewarding and challenging career in preschools, child care centers, Head Start centers, church-related programs, child development centers, and campus or recreational centers.

The Early Childhood Development program is designed for the student interested in a career in early childhood settings that do not require public school certification as well as those students who plan to enter the job force immediately. The program's course of study focuses on developing an understanding of young children and their needs. Class instruction provides students practical knowledge about the physical, social, emotional, cognitive, and creative principles critical in working with young children. The hands-on practicum experiences provide students the opportunity to apply information from class and other resources to discover what really works with children in a variety of early care settings.

Three academic options exist in the Early Childhood Development program:

Option One: The completion of three core courses (ECD 101, ECD 120 and ECD 170) in the Early Childhood Development program provides individuals the necessary coursework to meet the national credential requirement for the Child Development Associate Credential. Individuals completing this short-term track will have fulfilled ONLY the required training clock hours. Additional requirements apply. Final assessment and recommendation for the CDA is provided by the Council for Professional Recognition, an external credentialing organization. More information can be found at www.cdacouncil.org.

Individuals who have already been awarded the CDA credential and are interested in receiving credit for ECD 101, ECD 120, and ECD 170 need to contact the Early Childhood Development program for further information.

Option Two: The Certificate of Achievement track is a short-term certificate designed to prepare individuals for support roles in the early childhood field. Individuals completing this track will gain entry-level competencies and an overall general understanding of child development. Credits earned can be applied towards the Associate of Applied Science degree in Early Childhood Development.

Option Three: The Associate of Applied Science degree in Early Childhood Development is a two-year program designed to prepare individuals for careers, career changes and career advancement in the early childhood profession. Individuals completing the A.A.S degree will gain advanced-level competencies and an in-depth understanding of child development. Graduates will be prepared with the skills and techniques necessary to provide developmentally appropriate learning environments for young children.

Important to Note When Considering This Program: Students are required in most Early Childhood Development courses to participate in practicum experience assignments involving visitations to and/or work in an early childhood setting. Students must register with the Family Care Safety Registry and successfully pass the background screening prior to beginning any practicum experience requirement.

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Early Childhood Development

Certificate: 37 Hours

A.A.S. Degree: 66 Hours

Early Childhood Development Program Requirements		Credits	Semester Taken	Prerequisites
Child Development Associate Credential* (Option One)	ECD 101 Introduction to Early Childhood	4		Students with a current CDA credential may be eligible to receive credit for the 12 hours of coursework.
	ECD 120 Early Childhood Literature and Language	4		
	ECD 170 Health, Safety & Nutrition in Early Childhood	4		
Total Credit Hours Required for CDA Credential		12		
Certificate of Achievement (Option Two)	ECD 101 Introduction to Early Childhood	4		None
	ECD 110 Early Childhood Growth and Development	4		
	ECD 120 Early Childhood Literature and Language	4		
	ECD 165 Relationships in Early Childhood	4		
	ECD 170 Health, Safety & Nutrition in Early Childhood	4		
	ECD 225 Abuse and Neglect in Early Childhood	3		
	ECD 260 Curriculum Development in Early Childhood	4		Grade of "C" or better in ECD 110
	CIS 101 Personal Computer Applications	3		Keyboarding skill of 25 WPM or BUS 101 or CIS 100 recommended
	ENG 101 Composition I	3		Grade of "NC" or better in ENG 050 and RDG 050 or satisfactory score on the Placement Assessments
	Mathematics Elective (MTH 105 or higher)	3		
	TEC 285 Occupational Seminar	1		Minimum of 30 hours toward degree program or advisor's approval.
Total Credit Hours Required for Certificate of Achievement		37		Students wishing to complete the Certificate of Achievement should submit the Application for Graduation form. The form is available through AccessOTC.
Associate of Applied Science (Option Three)	Certificate of Achievement courses	37		
	ECD 210 Zero to Three: The Early Years	3		None
	ECD 230 The Young Exceptional Child	3		
	ECD 299 Capstone for Early Childhood Development	4		ECD 101, 110, 120, 165, 170, 210, 225, 230, and 260 or program permission
	PSY 110 Introduction to Psychology	3		None
	PSY 260 Child Psychology	3		PSY 110
	PLS 101 American Government and Politics	3		None
	Humanities or Communication Elective	3		
	Related Elective	3		See course descriptions section of the catalog for individual course requirements
	Science Elective	4		
	Exit Exam			See degree audit for course number
Total Credit Hours Required for Associate of Applied Science		66		Each student must apply for graduation and complete the exit assessment to be eligible to graduate. The graduation application is student initiated by submission of the Application for Graduation form. The form is available through AccessOTC.

Note: As required by Missouri law, all degree programs must include instruction in both the U.S. and the Missouri State Constitution. This can be satisfied by either PLS 101 or both HST 120 and HST 130.

Related Electives: May choose courses from the following program areas: ACC, ANT, ASL, BUS, ECD, ENG, PSY, SOC

*OTC does not award the CDA credential. This course track provides only the required 120 hours of education for the national credential requirement. Additional requirements apply. Final assessment and recommendation for the CDA is provided by the Council for Professional Recognition, an external credentialing organization. More information can be found at www.cdacouncil.org.

ASSOCIATE OF APPLIED SCIENCE DEGREE (A.A.S.)

Electrical

Certificate: 34 Hours

The Electrical Certificate program will provide individuals the opportunity to develop technical skills needed to advance in a career as an electrician. This program can be utilized by apprentices or non-apprentices.

Upon completion of the Electrical Certificate, students can apply those credit hours to two different A.A.S. degree programs. If a student has completed the certificate program as an apprentice, has a sufficient amount of work related hours, and passes the National Electric Certification exam, he or she may wish to pursue an A.A.S. degree in the Apprenticeship Industrial Technology program. If a student does not have the work related hours required to sit for the National Electric Certification exam (non-apprentice), he or she may choose to pursue an A.A.S. degree in Manufacturing. Consultation with the department chair of this program is required to ensure that each individual chooses a path that will best suit his or her needs.

Electrical - Certificate Requirements		Credits	Semester Taken	Prerequisites
Certificate of Achievement	ELC 100 Introduction to Electrical Theories and Safety	3		None
	ELC 110 Electrical Formulas and Circuitry	4		Grade of "C" or better in ELC 100
	ELC 115 Print Reading for Electrical Trades	4		Grade of "C" or better in ELC 100
	ELC 120 Wiring Methods & Power Distribution Applications	4		Grade of "C" or better in ELC 100
	ELC 130 Basic Power Generations and Code Requirements	4		Grade of "C" or better in ELC 100
	ELC 200 Application to NEC to Electrical Apparatus	4		Grade of "C" or better in ELC 100
	ELC 210 Application of NEC to Unique Systems and Location	4		Grade of "C" or better in ELC 100
	ELC 220 VFD and PLC Operations and Maintenance	4		Grade of "C" or better in ELC 100
	ELC 230 Preparation for National Electric Certification	3		Grade of "C" or better in ELC 100
	Exit Exam			See degree audit for course number
Total Credit Hours Required for Certificate of Achievement		34		Each student must apply for graduation and complete the exit assessment to be eligible to graduate. The graduation application is student initiated by submission of the Application for Graduation form. The form is available through AccessOTC.

Electronic Media Production

Certificate: 32 Hours

A.A.S. Degree: 62 Hours

The Electronic Media Production program is designed to meet the changing needs of the audio-visual industry in a digital format. Students will learn a variety of contemporary production skills. Emphasis is on a hands-on laboratory environment in digital video production and editing, multi-track audio production, computer-based game design, 3-D animation and radio production. Students may complete an internship with industry prior to earning an A.A.S. degree.

Electronic Media Production Program Requirements		Credits	Semester Taken	Prerequisites
Certificate of Achievement	EMP 102 Introduction to Electronic Media Production	4		None
	EMP 110 (S) Sound Design	4		
	EMP 115 (F) Studio Television Production	4		
	EMP 117 (S) Video Systems	4		
	EMP 208 (F) Digital Video Production	4		
	EMP 210 (F) Photojournalism	4		
	EMP 216 (F) 3-D Animation	4		
	EMP 250 (S) Digital Special Effects	4		EMP 208
Total Credit Hours Required for Certificate of Achievement		32		Student wishing to complete the Certificate of Achievement should submit the Application for Graduation form. The form is available through AccessOTC.
Associate of Applied Science	Certificate of Achievement courses	32		
	EMP 127 Audio Engineering	4		Grade of "C" or better in EMP 110
	EMP 263 Producing and Directing Television	4		EMP 102, 110, 117, and 208 (or concurrent enrollment in EMP 208)
	EMP 290 Co-Operative Ed/Intern/Related elective	1-3		Completion of 30 credit hours and 2.0 GPA or advisor's approval. Please see the department chair of the specific program area for application.
	TEC 108 Applied Technical Mathematics (or MTH 110 or higher)	3		See course descriptions section of the catalog for individual course requirements.
	TEC 285 Occupational Seminar	1		Minimum of 30 hours toward degree program or advisor's approval.
	COM 105 Public Speaking	3		None
	ENG 101 Composition I	3		Grade of "NC" or better in ENG 050 and RDG 050 or satisfactory score on the Placement Assessments.
	HLT 101 Health and Wellness	2		None
	PLS 101 American Government and Politics	3		
	Science Elective	3-4		See course descriptions section of the catalog for individual course requirements.
	Social Science Elective	3		None
	Exit Exam			See degree audit for course number
Total Credit Hours Required for Associate of Applied Science		62		Each student must apply for graduation and complete the exit assessment to be eligible to graduate. The graduation application is student initiated by submission of the Application for Graduation form. The form is available through AccessOTC.

Note: As required by Missouri law, all degree programs must include instruction in both the U.S. and the Missouri State Constitution. This can be satisfied by either PLS 101 or both HST 120 and HST 130.

(F) - course offered in the fall semester

(S) - Course offered in the spring semester

Related Electives - EMP 100, 101, 103, 104, 150 or may choose courses from the following program areas: BUS, CIS, DDT, GDT, NET

Emergency Medical Technician—Paramedic

Certificate: 48 Hours

A.A.S. Degree: 63 Hours

The Emergency Medical Technician-Paramedic program is approved by the state of Missouri, Department of Health and Senior Services, and the Unit of Emergency Medical Services. After completing EMT 101: EMT—Basic, students are eligible to take the National Registry certifying exam. Graduates of the Paramedic component receive a certificate and are eligible to take the National Registry certifying exam for paramedics. Students earn an A.A.S. in Paramedic Education after the completion of the general education classes along with the Paramedic component. Students in the program receive instruction in the recognition and treatment of patients with medical emergencies and trauma. Classroom and skills labs are complemented by clinical work in local hospitals and field internships with EMS agencies.

EMT Basic. The application deadline for the EMT Basic program is May 1 for summer, July 15 for fall and November 30 for spring.

EMT Paramedic. Students may take the “Program Specific Courses” only after they have been admitted into the program. A separate application process is required for acceptance into this program.

Paramedic classes begin each fall semester. The application deadline for the program is July 15 for the fall semester.

EMT Intermediate class begins each spring and fall. The application deadline for EMT Intermediate class is November 30 for spring admission and July 15 for fall.

An application packet is available online or by contacting the Allied Health office. Please see faculty members for further advisement.

Missouri Department of Health Bureau of Emergency Medical Services, PO Box 570, Jefferson City, MO 65102, (573) 761-9911.

This program is accredited by the Committee on Accreditation of Education Programs for the EMS Professions (CoAEMSP), 8301 Lakeview Parkway, Suite 111-312, Rowlett, TX 75088, (214) 703-8445.

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Emergency Medical Technician—Paramedic

Certificate: 48 Hours

A.A.S. Degree: 63 Hours

Emergency Medical Technician Program Requirements		Credits	Semester Taken	Prerequisites/Comments
EMT - Basic (All courses must be completed with a grade of "C" or better)	EMT 101 Emergency Medical Technician - Basic	6		
After completing EMT 101 students are eligible to take the National Registry Certifying Exam		6		
EMT - Intermediate (All courses must be completed with a grade of "C" or better)	EMT 155 EMT Intermediate	6		These courses, along with BCS 145 or BCS 165 can be taken in place of EMT 200 and EMT 230. Please see faculty members of the program for advisement.
	EMT 160 Intermediate Clinical Rotation	3		
	EMT 170 Intermediate Field Internship	6		
Completion of these courses allows the student to be eligible to sit for the EMT-Intermediate state and national licensure exams		15		
Emergency Medical Technician - Paramedic				Students can graduate with either a certificate or an A.A.S degree. After completing the certificate, students are eligible to take the National Registry certifying exam for paramedics.
Certificate of Achievement (All courses must be completed with a grade of "C" or better)	EMT 101 Emergency Medical Technician - Basic	6		Selective admission and students must be 18 years of age or older. Valid drivers license required.
	EMT 200 Paramedic I	6		See course descriptions section of the catalog for individual course requirements
	EMT 210 Cardiology for the EMT - Paramedic	4		
	EMT 220 Pharmacology for the EMT - Paramedic	2		
	EMT 230 Clinical Rotations I	2		
	EMT 201 Paramedic II	5		
	EMT 231 Clinical Rotations II	4		
	EMT 232 Clinical Rotations III	4		
	EMT 240 Paramedic Field Internship	7		
	BCS 145 Anatomy and Physiology I	4		
	BCS 146 Anatomy and Physiology II	4		
Total Credit Hours Required for Certificate of Achievement		48		Student wishing to complete the Certificate of Achievement should submit the Application for Graduation form. The form is available through AccessOTC.
Associate of Applied Science (All courses must be completed with a grade of "C" or better)	Certificate of Achievement courses	48		
	ENG 101 Composition I	3		Grade of "NC" or better in ENG 050 and RDG 050 or satisfactory score on the Placement Assessments
	MTH 110 Intermediate Algebra	3		Grade of "NB" or "NA" in MTH 050 or satisfactory score on the Mathematics Placement Assessment
	Communication Elective	3		See course descriptions section of the catalog for individual course requirements
	Social Science Elective	3		
	Social Science Elective	3		
Total Credit Hours Required for Associate of Applied Science		63		Each student must apply for graduation to be eligible to graduate. The graduation application is student initiated by submission of the Application for Graduation form. The form is available through AccessOTC.

ASSOCIATE OF APPLIED SCIENCE DEGREE (A.A.S.)

Environmental Science Technology

Certificate: 32 Hours

A.A.S. Degree: 62 Hours

This Associate of Applied Science degree program prepares students to pursue careers as Environmental Science Protection Technicians, where they will conduct laboratory and field tests to monitor and investigate sources of environmental pollution, including those which may impact public health.

Environmental Science Technology Program Requirements		Credits	Semester Taken	Prerequisites
Certificate of Achievement	BIO 105 Environmental Science	4		None
	ENV 201 Intro to Environmental Protection Technology	3		
	ENV 202 Water Quality Testing	3		
	ENV 203 Air Quality Testing	3		
	ENV 204 Hazardous Waste Management	3		
	ENV 205 Occupational Health	3		
	CHM 101 Introductory Chemistry	4		Grade of "NB" or better in MTH 050 or equivalent score on the placement assessment for entry into to MTH 110.
	MTH 110 Intermediate Algebra	3		
	PLS 255 Environmental Law	3		None
	AGR 235 Soils	3		None
Total Credit Hours Required for Certificate of Achievement		32		Student wishing to complete the Certificate of Achievement should submit the Application for Graduation form. The form is available through AccessOTC.
Associate of Applied Science	Certificate of Achievement courses	32		
	CHM 225 Environmental Chemistry	3		Grade of "C" or better in CHM 101 or CHM 160 and 161
	CIS 101 Computer Applications	3		Keyboarding skill of 25 WPM or BUS 101 or CIS 100 recommended.
	COM 105 Public Speaking	3		None.
	ENG 101 Composition I	3		Grade of "NC" or better in ENG 050 and RDG 050 or satisfactory score on the Placement Assessments.
	ENG 150 Technical Writing	3		ENG 101
	PLS 101 American Government and Politics	3		None.
	BIO 290 Internship Environmental Science Technician	6		Minimum of 30 hours toward degree program or department chair approval.
	MTH 130 College Algebra	3		Grade of "C" or better in MTH 110 or equivalent or satisfactory score on the Mathematics Placement Assessment.
	MTH 210 Statistics	3		Grade of "C" or better in MTH 130 or equivalent or satisfactory score on the Mathematics Placement Assessment.
Total Credit Hours Required for Associate of Applied Science		62		Each student must apply for graduation. The graduation application is student initiated by submission of the Application for Graduation form. The form is available through AccessOTC.

Note: As required by Missouri law, all degree programs must include instruction in both the U.S. and the Missouri State Constitution. This can be satisfied by either PLS 101 or both HST 120 and HST 130.

Fire Science Technology

Certificates: 36 Hours

A.A.S. Degree: 65 Hour

Career departments, volunteer departments and departments with both career and volunteer firefighters combine to comprise approximately 100 fire departments throughout southwest Missouri. The Fire Science Technology program provides learning opportunities which introduce, develop and reinforce academic and occupational knowledge, skills and attitudes required for job acquisition, retention and advancement. Additionally, the program provides opportunities to retrain and upgrade present knowledge and skills. Career choices for Fire Science Technology students include the following: firefighter, fire inspector, fire instructor, fire investigator, fire protection systems installer, U.S. Forest Service, as well as various military branches. OTC graduates have employment opportunities locally, statewide, nationally and internationally. The program is accredited by the International Fire Service Accreditation Congress (IFSAC).

OTC has developed procedures for evaluating past training experiences and certification; inquiries should be directed to the lead instructor or department chair.

Students wishing to transfer to a four-year institution are strongly encouraged to seek the advice of the lead instructor or department chair of the FST program to determine courses appropriate for transfer.

This program is accredited by the International Fire Service Accreditation Congress (IFSAC), 1812 Tyler Avenue, Stillwater, OK, 74078-8705, (405) 744-8303.

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ASSOCIATE OF APPLIED SCIENCE DEGREE (A.A.S.)

Fire Science Technology

Certificates: 36 Hours

A.A.S. Degree: 65 Hours

Fire Science Technology Program Requirements		Credits	Semester Taken	Prerequisites
Associate of Applied Science	FST 102(F) Building Construction	3		None
	FST 106 Firefighter I and II	6		FST 120 or concurrent enrollment, or have documentation of having the state certifications for Hazardous Materials Awareness and Operations courses
	FST 107 (S) Fire Prevention	3		None
	FST 109 (F) Fire Hydraulics	3		
	FST 111 (F) Strategy and Tactics	3		
	FST 117 (S) Fire Prevention Systems	3		
	FST 120 Hazardous Materials	3		
	FST 210 (F) Fire Department Officer (or FST 110)	3		See course descriptions section of the catalog for individual course requirements
	FST 215 (F) Fire Service Instructor I	3		
	FST 230 (S) Introduction to Fire Origin and Cause	3		
	FST 275 (S) Legal and Contemporary Issues of Fire & Emergency Services	3		
	FST 280 (S) Capstone Assessment - Must earn a grade of "C" or better to meet FST graduation requirement	2		Completion of 30 credit hours and 2.0 GPA or advisor's approval. Please see the Department Chair of specific program area for application
	FST 290 Co-Operative Ed/Internship	1-3		
	EMT 101 Emergency Medical Technician - Basic	6		Selective admission and students must be 18 years of age or older. Valid drivers license required
	TEC 285 Occupational Seminar	1		Minimum of 30 hours toward degree program or advisor's approval.
	ENG 101 Composition I	3		Grade of "NC" or better in ENG 050 and RDG 050 or satisfactory score on the Placement Assessments
	English/Communication Elective	3		See course descriptions section of the catalog for individual course requirements
	PSY 110 Introduction to Psychology	3		
	Science Elective	4		
	TEC 108 Applied Technical Mathematics (or MTH 105 or higher)	3		
	PLS 101 American Government and Politics	3		
	Exit Exam			See degree audit for course number
Total Credit Hours Required for Associate of Applied Science		65		Each student must apply for graduation and complete the exit assessment to be eligible to graduate. The graduation application is student initiated by submission of the Application for Graduation form. The form is available through AccessOTC.

Note: As required by Missouri law, all degree programs must include instruction in both the U.S. and the Missouri State Constitution. This can be satisfied by either PLS 101 or both HST 120 and HST 130.

(F) - course offered in the fall semester (S) - Course offered in the spring semester

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Fire Science Technology

Certificates: 36 Hours

A.A.S. Degree: 65 Hours

Fire Science - Fundamental Firefighting Certificate Requirements		Credits	Semester Taken	Prerequisites
Certificate of Achievement	FST 102 (F) Building Construction	3		None
	FST 106 Firefighter I and II	6		FST 120
	FST 107 Fire Prevention	3		None
	FST 110 Firefighter Safety & Survival	3		None
	FST 117 Fire Protection Systems	3		None
	FST 120 Hazardous Materials	3		None
	FST 230 Introduction to Origin & Cause	3		None.
	EMT 101 Emergency Medical Technician - Basic	6		Selective admission and students must be 18 years of age or older. Valid drivers license required.
	ENG 101 Composition I	3		Grade of "NC" or better in ENG 050 and RDG 050 or satisfactory score on the Placement Assessment.
	TEC 108 Applied Technical Mathematics	3		None
Total Credit Hours Required for Certificate of Achievement		36		Student wishing to complete the Certificate of Achievement should submit the Application for Graduation form. The form is available through AccessOTC.

Fire Science - Fire Officer Certificate Requirements		Credits	Semester Taken	Prerequisites
Certificate of Achievement	FST 210 (F) Fire Officer I	3		FST 106 or concurrent enrollment and FST 215 or concurrent enrollment
	FST 211 (S) Fire Officer II	3		Grade of "C" or better in FST 106, FST 210, FST 210
	FST 212 (F) Fire Officer III	3		Grade of "C" or better in FST 210 and FST 211
	FST 216 (S) Fire Service Instructor II	3		Grade of "C" or better in FST 210 and FST 215
	FST 231 Fire Investigation II	3		Grade of "C" or better in FST 210 and FST 230
	FST 240 (F) Occupational Safety & Health for Emergency Responders	3		Grade of "C" or better in FST 106 and FST 210 or concurrent enrollment in FST 210
	FST 250 Fire Service Report & Communications	3		None
	FST 207 Community Risk Reduction	3		Grade of "C" or better in FST 107 and FST 211 or concurrent enrollment, Grade of "C" or better in FST 215
	FST 275 Legal Aspects	3		FST 106, FST 215, FST 230, ENG 101, ENG/COM Elective, PLS 101 or concurrent enrollment, PSY 110 or concurrent enrollment
	BUS 110 Principles of Business	3		None
	EMS 100 Emergency Management	3		None
	TEC 108 Applied Technical Mathematics	3		None
Exit Exam				See degree audit for course number
Total Credit Hours Required for Certificate of Achievement		36		Student wishing to complete the Certificate of Achievement should submit the Application for Graduation form. The form is available through AccessOTC .

ASSOCIATE OF APPLIED SCIENCE DEGREE (A.A.S.)

Graphic Design Technology

A.A.S. Degree: 65 Hours

Graphic design is a professional discipline that focuses on visual communication in its simplest form. Graphic designers are critical thinkers and problem-solvers combining artistic and technical skills to choose, place and arrange words and imagery to create visual representations of ideas and messages. Designers focus primarily on print media such as brochures, promotional posters, publication design for books and magazines, logos, branding and more. Graphic design skills are used in, but not limited to, corporate identity design, website design, publication design, motion graphic design, advertising design and product packaging. Using industry-standard software students develop technical skills to create meaningful and creative designs that visually communicate to a target audience.

Graphic Design Technology Program Requirements		Credits	Semester Taken	Prerequisites
Associate of Applied Science	GDT 105 Graphic Design I	4		None
	GDT 115 Typography	4		
	GDT 122 Page Layout Design	4		Grade of "C" or better in GDT 105 and GDT 115
	GDT 125 Digital Illustration	4		Grade of "C" or better in GDT 105
	GDT 160 Digital Photography	4		None
	GDT 165 Image Editing	4		Grade of "C" or better in GDT 105 and GDT 115
	GDT 218 Graphic Production	4		Grade of "C" or better in GDT 105, GDT 115, GDT 122 and GDT 165. GDT 165 can be taken concurrently.
	GDT 230 Graphic Design II	4		Grade of "C" or better in GDT 105, GDT 115, GDT 122, GDT 125 and GDT
	GDT 248 Publication Design	4		Grade of "C" or better in GDT 105, GDT 115, GDT 122, GDT 165
	GDT 250 Web Page Design	4		Grade of "C" or better in GDT 105, GDT 115 and GDT 165
	GDT 255 Motion Graphic Design	4		Grade of "C" or better in GDT 105, GDT 115 and GDT 125
	GDT 275 Portfolio Design and Professional Practices	2		Grade of "C" or better in GDT 160, and GDT 230, GDT 248, GDT 250, GDT 255 or concurrent enrollment
	GDT 290 Co-Operative Ed/Internship (or Related Elective)	1-4		Completion of 30 credit hours and 2.0 GPA, or advisor's approval. Please see the Department Chair of the specific program area for application
	ENG 101 Composition I	3		Grade of "NC" or better in ENG 050 and RDG 050 or satisfactory score on the Placement Assessments
	Communication Elective	3		See course descriptions section of the catalog for individual course requirements
	Science Elective	3-4		
	TEC 108 Applied Technical Mathematics (or MTH 105 or higher)	3		
	PLS 101 American Government and Politics	3		
	Exit Exam			See degree audit for course number
Total Credit Hours Required for Associate of Science		65		Each student must apply for graduation and complete the exit assessment to be eligible to graduate. The graduation application is student initiated by submission of the Application for Graduation form. The form is available through AccessOTC.

Note: As required by Missouri law, all degree programs must include instruction in both the U.S. and the Missouri State Constitution. This can be satisfied by either PLS 101 or both HST 120 and HST 130.

(F) - course offered in the fall semester (S) - Course offered in the spring semester

Related Elective: GDT 110, GDT 130, GDT 141, GDT 142, GDT 143, GDT 144, GDT 252, GDT 268, CIS 130

Health Information Technology

Certificate: 36 Hours

A.A.S. Degree: 65 Hours

Health Information Technology is an Associate of Applied Science degree program designed to lead to employment throughout the healthcare industry in areas of data quality management, health information privacy and security, implementation of electronic health records, compliance with payment laws and regulations, and management of health information and medical records. Graduates are eligible to apply to take the AHIMA certification examination for the Registered Health Information Technician (RHIT). AHIMA reserves the right to accept and approve each application and transcript.

The Health Information Technology program is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM), 233 N. Michigan Ave, Suite 2150, Chicago, IL 60601-5800, (312) 233-1100.

Health Information Technology Program Requirements		Credits	Semester Taken	Prerequisites
Certificate of Achievement: Coding Specialist (All courses must be completed with a grade of "C" or better)	HIT 110 Introduction to Health Information Technology	3		Grade of "NC" or better in RDG 050, or satisfactory score on the Reading Placement Assessment.
	HIT 120 Medical Coding I	4		Grade of "C" or better in HIT 110, HIT 191, BCS 115 and CIS 101
	HIT 191 Medical Terminology	3		Grade of "NC" or better in RDG 050, or satisfactory score on the Reading Placement Assessment.
	HIT 220 Medical Coding II	4		Grade of "C" or better in HIT 120 and BCS 210
	HIT 230 Medical Coding III	4		Grade of "C" or better in HIT 120 and BCS 210
	BCS 115 Survey of Anatomy and Physiology	3		None
	BCS 210 Pathophysiology	3		Grade of "C" or better in BCS 115, BCS 146 or BCS 205 or concurrent enrollment
	CIS 101 Personal Computer Applications	3		Keyboarding skill of 25 WPM or BUS 101 or CIS 100 Recommended
	CIS 105 Spreadsheet Applications	3		CIS 101
	ENG 101 Composition I	3		Grade of "NC" or better in ENG 050 and RDG 050 or satisfactory score on the Placement Assessments
	Mathematics Elective (MTH 105 or higher)	3		See course descriptions section of the catalog for individual course requirements
Total Credit Hours Required for Certificate of Achievement		36		Student wishing to complete the Certificate of Achievement should submit the Application for Graduation form. The form is available through AccessOTC.
Associate of Applied Science (All courses must be completed with a grade of "C" or better)	Certificate of Achievement courses	36		
	HIT 200 Comparative Health Records & Reimbursement Systems	3		Grade of "C" or better in HIT 220, HIT 230 and MTH 105 or higher
	HIT 201 Healthcare Quality Management	3		Grade of "C" or better in HIT 110 and CIS 105
	HIT 215 Health Information Systems	3		Grade of "C" or better in HIT 110 and CIS 105
	HIT 260 Legal Aspects of Healthcare	3		Grade of "C" or better in HIT 110 and CIS 105
	HIT 270 Healthcare Statistics	3		Grade of "C" or better in CIS 105, HIT 110 and MTH 105 or higher
	HIT 280 Organization and Supervision in Healthcare	3		Grade of "C" or better in HIT 120, 215, 260 and 270 and Grade of "C" or better in BUS 140 or ENG 150
	HIT 290 Professional Practice Experience	3		See course descriptions section of the catalog for individual course requirements
	BUS 140 or ENG 150	3		
	HLT 101 Health and Wellness	2		
	PLS 101 American Government & Politics	3		
Total Credit Hours Required for Associate of Applied Science		65		Each student must apply for graduation to be eligible to graduate. The graduation application is student initiated by submission of the Application for Graduation form. The form is available through AccessOTC.

Note: As required by Missouri law, all degree programs must include instruction in both the U.S. and the Missouri State Constitution. This can be satisfied by either PLS 101 or both HST 120 and HST 130.

ASSOCIATE OF APPLIED SCIENCE DEGREE (A.A.S.)

Hearing Instrument Science

A.A.S. Degree: 63 Hours

The Hearing Instrument Science program is designed to prepare graduates to practice as Hearing Instrument Specialists in a variety of hearing healthcare settings, including private practice. This is a limited and selective admission program. This program includes didactic and laboratory coursework, as well as supervised clinical education experiences. This prepares graduates to function as a member of the hearing healthcare team including Hearing Instrument Specialists, Otologists, Audiologists and Otolaryngologists.

Students may take the "Program Specific Courses" only if they have been admitted into the program. A separate application process is required for acceptance into this program. A new class begins each spring semester. You may contact the Allied Health office at (417) 447-8954 for an application packet.

Graduates may apply for licensure as a Hearing Instrument Specialist from the State of Missouri Board of Professional Registration. The graduate may also apply for Board Certification from the National Board Certification in Hearing Instrument Sciences (NBC-HIS).

Hearing Instrument Science Program Requirements		Credits	Semester Taken	Prerequisites
Associate of Applied Science (All courses must be completed with a grade of "C" or better)	HIS 110 Acoustics and Psychoacoustics	3		Admission to the Hearing Instrument Science Program
	HIS 120 Anatomy & Physiology of Auditory and Speech Systems	3		Admission to the Hearing Instrument Science Program
	HIS 125 Hearing and Auditory Disorders	3		See course descriptions section of the catalog for individual course requirements
	HIS 130 Introduction to Audiometry	3		
	HIS 140 Introduction to Hearing Instrument Components	3		
	HIS 150 Hearing Instrument Fitting Methods	3		
	HIS 160 Hearing Healthcare Legal Responsibilities & Ethics	2		
	HIS 170 Clinical Practicum I	1		
	HIS 230 Advanced Audiometry	3		
	HIS 240 Compression & Digital Features of Hearing Instruments	3		
	HIS 250 Real Ear Measurements	3		
	HIS 260 Hearing Healthcare Management and Marketing	3		
	HIS 270 Clinical Practicum II	3		
	HIS 280 Clinical Practicum III	3		
	BCS 115 Survey of Anatomy and Physiology	3		
	BUS 110 Principles of Business	3		
	ENG 101 Composition I	3		Grade of "NC" or better in ENG 050 and RDG 050 or satisfactory score on the Placement Assessments
	Communication Elective	3		See course descriptions section of the catalog for individual course requirements
	PLS 101	3		
	Mathematics Elective (MTH 105 or higher)	3		
	PSY 110	3		
	PSY 270	3		
Total Credit Hours Required for Associate of Science		63		Each student must apply for graduation to be eligible to graduate. The graduation application is student initiated by submission of the Application for Graduation form. The form is available through AccessOTC.

Note: As required by Missouri law, all degree programs must include instruction in both the U.S. and the Missouri State Constitution. This can be satisfied by either PLS 101 or both HST 120 and HST 130.

Heating, Refrigeration and Air Conditioning

Certificate: 30 Hours

A.A.S. Degree: 62 Hours

The demand for highly skilled technicians in the heating, air conditioning and refrigeration fields will continue to grow in the coming years. Students are exposed to the most technically advanced equipment and knowledge to stay abreast of the rapid changes that are taking place in the HVAC industry. Courses cover every aspect of the trade to give the student a comprehensive understanding of HVAC systems. Skills learned will allow the student to find many different types of entry level HVAC-related careers. This program is accredited by HVAC Excellence, PO Box 491, Mount Prospect, IL 60056, (800) 394-5268.

Heating, Refrigeration, and Air Conditioning Program Requirements		Credits	Semester Taken	Prerequisites
Certificate of Achievement	HRA 102 Basic Refrigeration Theory and Application	4		None
	HRA 103 Electricity for Heating, Refrigeration and A/C	4		
	HRA 125 (S) Refrigerants and Refrigerant Handling	4		HRA 102
	HRA 135 (S) Refrigeration Motors and Controls	4		HRA 103
	HRA 180 (S) Air Distribution Systems	2		None
	HRA 245 (F) Commercial Refrigeration Systems	4		HRA 102 and HRA 103
	HRA 265 (F) Residential Heating and Air Conditioning	4		HRA 102 and HRA 103
	HRA 270 (S) Advanced Heating and Air Conditioning	4		HRA 102 and HRA 103
Total Credit Hours Required for Certificate of Achievement		30		Student wishing to complete the Certificate of Achievement should submit the Application for Graduation form. The form is available through AccessOTC.
Associate of Applied Science	Certificate of Achievement courses	30		
	HRA 250 (S) Advanced Commercial Refrigeration	4		HRA 102 and HRA 103
	HRA 280 (F) Boilers and Chillers	4		HRA 102 and HRA 103
	HRA 281 (S) Heating, Refrigeration and A/C Capstone - must earn a grade of "C" or better in this course to meet HRA graduation requirements	2		See course descriptions section of the catalog for individual course requirements
	HRA 290 Co-Operative Ed/Internship	2-3		Completion of 30 credit hours and 2.0 GPA; or advisor's approval. Please see the Department Chair of the specific program area for application.
	TEC 108 Applied Technical Mathematics (or MTH 110)	3		None
	TEC 285 Occupational Seminar	1		Minimum of 30 hours toward degree program or advisor's approval.
	COM 105 Public Speaking	3		
	ENG 101 Composition I	3		Grade of "NC" or better in ENG 050 or satisfactory score on the Placement Assessments
	PLS 101 American Government and Politics	3		None
	Lab Science Elective (PHY 140 preferred)	4		See course descriptions section of the catalog for individual course requirements
	Social Science Elective	3		
	Exit Exam			See degree audit for course number
Total Credit Hours Required for Associate of Applied Science		62		Each student must apply for graduation and complete the exit assessment to be eligible to graduate. The graduation application is student initiated by submission of the Application for Graduation form. The form is available through AccessOTC.

Note: As required by Missouri law, all degree programs must include instruction in both the U.S. and the Missouri State Constitution. This can be satisfied by either PLS 101 or both HST 120 and HST 130.

(F) - course offered in the fall semester (S) - Course offered in the spring semester

May substitute HRA 270 with either HRA 250 or 280 for certificate completion.

ASSOCIATE OF APPLIED SCIENCE DEGREE (A.A.S.)

Hospitality Management

A.A.S. Degree: 68 Hours

This program is designed to give the student the tools and training necessary to be competitive in the Hospitality Industry. Courses focus on the fundamentals and importance of management with regard to supervision of employees, revenue management, marketing and customer relations.

Hospitality Management Program Requirements		Credits	Semester Taken	Prerequisites
Associate of Applied Science	HSM 101 Introduction to the Hospitality Industry	3		None
	HSM 115 Safety and Sanitation	3		
	HSM 125 Purchasing and Product Identification	3		
	HSM 215 Dining Room Management	4		HSM 125 and a grade of "C" or better in HSM 101 and CUL 101
	HSM 225 Marketing in the Hospitality Industry	3		Grade of "C" or better in HSM 101
	HSM 233 Front Office Procedures	3		Grade of "C" or better in HSM 101 and MTH 105 or higher
	HSM 248 Bar and Beverage Management	3		Grade of "C" or better in HSM 101
	HSM 251 Menu Design and Food Service Management	3		HSM 125 and a grade of "C" or better in HSM 101 and CUL 101
	HSM 255 Accounting for the Hospitality Industry	3		MTH 105 or higher and grade of "C" or better in HSM 101
	HSM 270 Supervisory Management	3		Grade of "C" or better in HSM 101
	HSM 276 Catering and Event Management	3		HSM 125, HSM 251 and a grade of "C" or better in HSM 101
	HSM 290 Culinary Arts/Hospitality Management Internship	3		Completion of 30 credit hours and 2.0 GPA or advisor's approval
	CUL 101 Introduction to Food Preparation and Theory	3		HSM 115 or concurrent enrollment
	TEC 285 Occupational Seminar	1		Minimum of 30 hours toward degree program or advisor's approval.
	Related Elective	3		See course descriptions section of the catalog for individual course requirements
	Related Elective	3		
	Related Elective	3		
	ENG 101 Composition I	3		Grade of "NC" or better in ENG 050 and RDG 050 or satisfactory score on the Placement Assessments
	COM 105 Public Speaking	3		None
	BIO 135 Nutrition for Living	3		
	MTH 105 Business Math (or higher)	3		Grade of "NC" or better in MTH 040 or MTH 045 or equivalent or satisfactory score on the Mathematics Placement Assessment.
	Social Science Elective (recommend PLS 101)	3		See course descriptions section of the catalog for individual course requirements
	Social Science Elective (recommend PSY 110)	3		
	Exit Exam			See degree audit for course number
Total Credit Hours Required for Associate of Science		68		Each student must apply for graduation and complete the exit assessment to be eligible to graduate. The graduation application is student initiated by submission of the Application for Graduation form. The form is available through AccessOTC.

Note: As required by Missouri law, all degree programs must include instruction in both the U.S. and the Missouri State Constitution. This can be satisfied by either PLS 101 or both HST 120 and HST 130.

Related Electives: May choose courses from the following program areas: CUL, HSM, BUS 160, CIS 101, SPN 101, SPN 102

Industrial Maintenance Technology

Certificate: 31 Hours

A.A.S. Degree: 64 Hours

This program prepares students for employment in the lucrative field of industrial maintenance technology. Graduates are employed in manufacturing facilities, hospitals, hotels/resorts, public utilities, school/college facilities and retail chains. People with this training are responsible for installation, operation and maintenance of robots and other automated systems related to manufacturing and industrial processes. They perform installation and repair of machinery that is crucial to many industries. Good pay, benefits and high placement rates are characteristic of this field. This program provides ongoing skills enhancement to people already employed in the field, and it provides new students with the entry-level skills they need to gain employment.

Industrial Maintenance Technology Program Requirements		Credits	Semester Taken	Prerequisites/Comments
Certificate of Achievement Manufacturing Specialist	IMT 283 Manufacturing Specialist	31		17-Week Program
Certificate of Achievement	IMT 120 Industrial Safety	3		None
	IMT 125 (F) Fluid Power	4		
	IMT 130 (F) Industrial Electricity I	4		
	IMT 170 (S) Industrial Motors and Controls	4		IMT 130
	IMT 140 (S) Industrial Electricity II	4		
	IMT 200 (F) Mechanical Power Transmission	4		None
	IMT 225 (S) Programmable Control	4		
	Program/Related Elective	4		See course descriptions section of the catalog for individual course requirements
Total Credit Hours Required for Certificate of Achievement		31		Student wishing to complete the Certificate of Achievement should submit the Application for Graduation form. The form is available through AccessOTC.
Associate of Applied Science	Certificate of Achievement courses or Certificate of Manufacturing Specialist	31		
	IMT 246 (F) Advanced Programmable Control (or Program Elective with Specialist Certificate)	4		IMT 225 or IMT 283
	IMT 260 Industrial Systems Maintenance	4		Completion of 30 hours of program instruction
	IMT 290 Co-Operative Ed/Intern/Related elective	1-3		Completion of 30 credit hours of program specific courses and 2.0 GPA and approval of Department Chair
	TEC 285 Occupational Seminar	1		Minimum of 30 hours toward degree program or advisor's approval.
	ENG 101 Composition I	3		Grade of "NC" or better in ENG 050 and RDG 050 or satisfactory score on the Placement Assessments
	TEC 108 Applied Technical Mathematics (or MTH 110)	3		See course descriptions section of the catalog for individual course requirements
	COM 105 Public Speaking	3		
	Program/Related Elective	4		
	Social Science Elective	3		
	Social Science Elective	3		
	Science Elective	4		
	Exit Exam			See degree audit for course number
Total Credit Hours Required for Associate of Applied Science		64		Each student must apply for graduation and complete the exit assessment to be eligible to graduate. The graduation application is student initiated by submission of the Application for Graduation form. The form is available through AccessOTC.

Note: As required by Missouri law, all degree programs must include instruction in both the U.S. and the Missouri State Constitution. This can be satisfied by either PLS 101 or both HST 120 and HST 130.

Related Electives: May choose courses from the following program areas: CIS, CST, DDT, ELC, HRA, IMT, MFG, MTT, NET, WLD or ENG 150

ASSOCIATE OF APPLIED SCIENCE DEGREE (A.A.S.)

Machine Tool Technology

Certificate: 33 Hours

A.A.S. Degree: 66 Hours

The Machine Tool Technology program allows the student to learn the processes of manufacturing and machining with an understanding of specifications, dimensions, materials, finishing, methods of assembly and shape descriptions required to manufacture a product.

Machine Tool Technology Program Requirements		Credits	Semester Taken	Prerequisites/Comments
Certificate of Achievement Machine Tool Specialist	MTT 260 Machine Tool Specialist	32		17-Week Program
Certificate of Achievement	IMT 120 Industrial Safety	3		None
	MTT 125 (F) Machine Shop I	4		
	MTT 135 (F) Computer Numerical Control I	4		
	MTT 145 (S) Computer Aided Manufacturing (Mill)	4		
	MTT 155 (S) Machine Tool Processes I	4		MTT 125
	MTT 225 Machine Shop II	4		MTT 125 and MTT 155
	MTT 235 Computer Numerical Control II	4		MTT 135
	Related Elective	3-4		See course descriptions section of the catalog for individual course requirements
	Related Elective	3-4		
Total Credit Hours Required for Certificate of Achievement		33		Student wishing to complete the Certificate of Achievement should submit the Application for Graduation form. The form is available through AccessOTC.
Associate of Applied Science	Certificate of Machine Tool Specialist Plus:	32		
	IMT 120 Industrial Safety	3		None
	Related Elective	3		See course descriptions section of the catalog for individual course requirements
	Related Elective	3		
	OR			
	Certificate of Achievement courses Plus:	33		
	MTT 245 Computer Aided Manufacturing II	4		MTT 145
	MTT 255 Machine Tool Processes II	4		MTT 225, MTT 235 and MTT 245 (or concurrent enrollment)
	MTT 290 Co-Operative Ed/Internship	1-3		Completion of 30 credit hours and 2.0 GPA or advisor's approval. Please see the department chair of the specific program area for application.
	DDT 110 Mechanical Dimensioning and Tolerancing	4		None
	TEC 285 Occupational Seminar	1		Minimum of 30 hours toward degree program or advisor's approval.
	ENG 101 Composition I	3		Grade of "NC" or better in ENG 050 and RDG 050 or satisfactory score on the Placement Assessments
	TEC 108 Applied Technical Mathematics (or MTH 110)	3		None
	COM 105 Public Speaking	3		
	Social Science Elective	3		See course descriptions section of the catalog for individual course requirements
	Social Science Elective	3		
	PHY 140 Technical Physics (or PHY 105)	4		
	Exit Exam			
Total Credit Hours Required for Associate of Applied Science		66		Each student must apply for graduation and complete the exit assessment to be eligible to graduate. The graduation application is student initiated by submission of the Application for Graduation form. The form is available through AccessOTC.

Note: As required by Missouri law, all degree programs must include instruction in both the U.S. and the Missouri State Constitution. This can be satisfied by either PLS 101 or both HST 120 and HST 130.

Related Electives: CST, DDT, HRA, IMT, MFG, MTT, WLD

Manufacturing Technology

Certificates: Level I—31 Hours, Level II—64 Hours, Level III—94 Hours

A.A.S. Degree: 64 Hours

Manufacturing Technology is a cross-disciplinary program which allows the student to chart a personalized path to a degree and certificates by taking several required courses along with courses chosen from any of our manufacturing-related degree programs. Classes from Industrial Maintenance Technology (IMT), Drafting and Design Technology (DDT), Machine Tool Technology (MTT), Welding (WLD) and other related electives can be combined to lead to the MFG degree.

This program is intended to help employers create a professional training plan for their employees that leads to a degree and/or certificates, and exactly fits the needs of the employee for the particular position they are in. Further post-degree training can lead to the top level certificate and prepare employees for management and supervisory roles. Student enrollment must be preceded by an advising consultation with one or more of the department chairs of the above programs to create a degree/certification plan for individuals or groups of employees. Contact the department chair for more information.

Manufacturing Technology Program Requirements		Credits	Semester Taken	Prerequisites/Comments
Certificate of Achievement (Level I)	IMT 120 Industrial Safety	3		None
	Related Elective	4		See course descriptions section of the catalog for individual course requirements
	Related Elective	4		
	Related Elective	4		
	Related Elective	4		
	Related Elective	4		
	Related Elective	4		
	Related Elective	4		
Total Credit Hours Required for Certificate of Achievement Level I		31		Student wishing to complete the Certificate of Achievement should submit the Application for Graduation form. The form is available through AccessOTC.
Associate of Applied Science (Level II)	Certificate of Achievement courses	31		
	MFG 275 Manufacturing Capstone	3-4		30 hours completed or including concurrent enrollment in MFG program specific courses and department chair consultation
	MFG 290 Co-Operative Ed/Internship	1-3		Completion of 30 credit hours of program specific courses and 2.0 GPA and approval of Department Chair
	Related Elective	3-4		See course descriptions section of the catalog for individual course requirements
	Related Elective	3-4		
	BUS 110 Principles of Business	3		None
	TEC 285 Occupational Seminar	1		Minimum of 30 hours toward degree program or advisor's approval.
	ENG 101 Composition I	3		Grade of "NC" or better in ENG 050 and RDG 050 or satisfactory score on the Placement Assessments
	TEC 108 Applied Technical Mathematics (or MTH 110 or higher)	3		None
	COM 105 Public Speaking	3		
	Social Science Elective	3		See course descriptions section of the catalog for individual course requirements
	Social Science Elective	3		
	Science Elective (PHY 140 preferred)	4		See course descriptions section of the catalog for individual course requirements.
	Exit Exam			See degree audit for course number
Total Credit Hours Required for Associate of Applied Science		64		Each student must apply for graduation and complete the exit assessment to be eligible to graduate. The graduation application is student initiated by submission of the Application for Graduation form. The form is available through AccessOTC.

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ASSOCIATE OF APPLIED SCIENCE DEGREE (A.A.S.)

Manufacturing Technology

Certificates: Level I—31 Hours, Level II—64 Hours, Level III—94 Hours

A.A.S. Degree: 64 Hours

Manufacturing Technology Program Requirements		Credits	Semester Taken	Prerequisites/Comments
Certificate (Level III)	Certificate of Achievement and AAS courses	64		
	BUS 150 Principles of Management	3		BUS 110 and BUS 130
	Related Elective	4		See course descriptions section of the catalog for individual course requirements
	Related Elective	4		
	Related Elective	4		
	ECO 270 Principles of Macroeconomics	3		Grade of "NC" or better in MTH 050 or higher or equivalent score on the Mathematics Placement Assessment.
	Related Elective	4		See course descriptions section of the catalog for individual course requirements
	Related Elective	4		
	Related Elective	4		
Total Credit Hours Required for Certificate of Achievement Level III		94		Student wishing to complete the Certificate of Achievement should submit the Application for Graduation form. The form is available through AccessOTC.

Related Electives: ABR, AGR (Excluding AGR 100), AUM, CIS, CST, DDT, DSL, ELC, EMP, FST, GDT, HRA, IMT, MFG, MTT, NET, WLD

Medical Laboratory Technician

A.A.S. Degree: 73 Hours

Medical Laboratory Technician (MLT) is a two-year Associate of Applied Science degree designed to prepare individuals for clinical laboratory employment. A medical laboratory technician performs a wide variety of medical laboratory tests on blood, urine and other bodily fluids that assist physicians in making diagnostic and therapeutic decisions. In addition to employment in hospital and clinical laboratories, graduates can pursue positions in research, blood centers, medical equipment sales and technical support. The program will include clinical experience in area medical facilities along with the classroom and laboratory education provided on campus.

The job opportunities for MLTs are excellent, both nationally and locally, as the number of job openings currently exceeds the number of qualified job seekers. The program will begin in June with an application deadline of February 15. Contact the Allied Health office or visit the website otc.edu/alliedhealth for an application packet. National Accrediting Agency for Clinical Laboratory Sciences, 5600 N. River Road Suite 720, Rosemont, IL 60018, (773) 714-8880.

Medical Laboratory Program Requirements		Credits	Semester Taken	Prerequisites
Pre-admission Requirements	¹ BCS 165 Human Anatomy	4		None
	¹ BCS 205 Human Physiology	4		Grade of "C" or better in BCS 165 and a grade of "C" or better in CHM 101
	CHM 101 Introductory Chemistry (or higher)	4		Grade of "NB" or better in MTH 050 or equivalent score of the placement assessment for entry into MTH 110
	COM 100 Intro to Communications	3		None
	ENG 101 Composition I	3		Grade of "NC" or better in ENG 050 or satisfactory score on the Placement Assessments
	MTH 110 Intermediate Algebra	3		Grade of "NB" or "NA" in MTH 050 or satisfactory score on the Mathematics Placement Assessment
	PSY 110 Introduction to Psychology (or Social Science Elective)	3		None
	² MLT 100 Introduction to the Medical Laboratory (Spring semester only)	1		BCS 145 and BCS 146 or concurrent enrollment in BCS 146, or BCS 165 and BCS 205 or concurrent enrollment in BCS 205; Selective admission into the course.
	PLB 100 Introduction to Phlebotomy (Spring semester only)	2		Selective admission into the course
	BCS 200 Microbiology	4		Grade of "C" or better in BIO 160, BCS 115, BCS 146 or BCS 205. Concurrent enrollment in BCS 146 or BCS 205 is allowed
	PLS 101 American Government and Politics	3		None
Total Credit Hours for Pre-admission Requirements		34		
Associate of Applied Science (All courses must be completed with a grade of "C" or better and a GPA 2.5 or higher)	PLB 101 Phlebotomy Clinical	1		Grade of "C" or better in PLB 100
	MLT 200 Hematology	4		See course descriptions section of the catalog for individual course requirements
	MLT 205 Clinical Immunology	2		
	MLT 210 Clinical Chemistry	4		
	MLT 215 Urinalysis and Body Fluids	2		
	MLT 260 Clinical Practicum II	8		
	MLT 220 Immunohematology	4		
	MLT 230 Clinical Microbiology	4		
	MLT 240 Clinical Seminar and Review	2		
	MLT 270 Clinical Practicum III	8		
Total Credit Hours Required for Associate of Science		73		Each student must apply for graduation to be eligible to graduate. The graduation application is student initiated by submission of the Application for Graduation form. The form is available through AccessOTC.

Note: As required by Missouri law, all degree programs must include instruction in both the U.S. and the Missouri State Constitution. This can be satisfied by either PLS 101 or both HST 120 and HST 130.

¹BCS 145 and BCS 146 may be substituted for BCS 165 and BCS 205. ²MLT 100 and PLB 100 offered in the Spring only and requires MLT faculty permission.

ASSOCIATE OF APPLIED SCIENCE DEGREE (A.A.S.)

Networking Technology

Certificate: 31 Hours

A.A.S. Degree: 62 Hours

Employment in computer networking ranges from assembling and repairing computers, to installation of network copper and fiber cabling systems, and attaching the computers to a network. Network technicians may also install network servers and server operating systems as well as troubleshoot and repair problems on these networks. Network administrators oversee the functioning of all network-attached devices including printers and publishing systems. Graduates of the networking technology program will qualify for entry level positions as network technicians, computer technicians and as network cable installers.

Networking Technology Program Requirements		Credits	Semester Taken	Prerequisites
Certificate of Achievement	NET 100 Networking Essentials	4		None
	NET 102 Desktop Hardware	4		
	NET 104 (F) Network Communications and Cabling	4		
	NET 110 Windows Client Server	4		Grade of "C" or better in NET 100
	NET 112 Linux Operating System	4		
	NET 116 Cisco Routing and Switching - Introduction to Networks	4		
	PHY 140 Technical Physics	4		Grade of "C" or better in TEC 108 or MTH 110 or higher, or equivalent score on Placement assessment.
		TEC 108 Applied Technical Mathematics (or MTH 110 or higher)	3	See course descriptions section of the catalog for individual course requirements.
Total Credit Hours Required for Certificate of Achievement		31		Student wishing to complete the Certificate of Achievement should submit the Application for Graduation form. The form is available through AccessOTC.
Associate of Applied Science	Certificate of Achievement courses	31		
	NET 202 (F) Information Technology Security	4		None
	NET 205 (F) Network Virtualization and Storage Concepts	4		Grade of "C" or better in NET 110 and NET 112
	NET 206 Cisco CCNA - Routing and Switching Essentials	4		Grade of "C" or better in NET 116
	NET 216 Cisco CCNA - Scaling and Connecting Networks	4		Grade of "C" or better in NET 206
	NET 260 (S) Advanced Topics	4		Grade of "C" or better in NET 205
	NET 290 Co-Operative Ed/Internship (or NET 291)	1-3		See course descriptions section of the catalog for individual course requirements.
	COM 105 Public Speaking	3		None
	PLS 101 American Government and Politics	3		
	ENG 101 Composition I	3		Grade of "NC" or better in ENG 050 and RDG 050 or satisfactory score on the Placement Assessments.
	TEC 285 Occupational Seminar	1		Minimum of 30 hours toward degree program or advisor's approval.
	Exit Exam			See degree audit for course number
Total Credit Hours Required for Associate of Applied Science		62		Each student must apply for graduation and complete the exit assessment to be eligible to graduate. The graduation application is student initiated by submission of the Application for Graduation form. The form is available through AccessOTC.

Note: As required by Missouri law, all degree programs must include instruction in both the U.S. and the Missouri State Constitution. This can be satisfied by either PLS 101 or both HST 120 and HST 130.

(F) - course offered in the fall semester (S) - Course offered in the spring semester

Nursing—Practical Nursing

Certificate: 49 Hours

The Practical Nursing program is fully approved by the Missouri State Board of Nursing. Graduates receive a certificate and are eligible to apply to write the NCLEX-PN exam to become licensed as a Practical Nurse. Graduates may go to work in long-term skilled care, home health care, doctors' offices, hospice, hospitals and/or industrial nursing. This may also be used as a stepping stone to further one's nursing education.

Students may take the "Program Specific Courses" only after they have been admitted into the program. A separate application process is required for acceptance into this program. Refer to the website, otc.edu/academicaffairs/465.php, or the application packet for admissions requirements. Complete application information can be obtained on the OTC web site or from the Allied Health office. A new class begins each fall and spring semester at the Springfield campus, each fall semester at the Table Rock campus, and each spring at the Lebanon center.

MO State Board of Nursing, PO Box 656, Jefferson City, MO 65102, (573) 751-0681.

Nursing - Practical Nursing Program Requirements		Credits	Semester Taken	Prerequisites
Pre-Admission Requirements	BCS 145* Anatomy and Physiology I	4		Grade of "NC" or better in ENG 050 or grade of "NC" or better in RDG 050 or equivalent scores on placement assessment
	BCS 146* Anatomy and Physiology II	4		Grade of "C" or better in BCS 145
Total Credit Hours for Pre-admission Requirements		8		
Certificate of Achievement	NUR 101 Personal Vocational Concepts	2		Admission to the Practical Nursing Program
	NUR 110 Fundamentals of Nursing I	3		
	NUR 120 Fundamentals of Nursing II	3		See course descriptions section of the catalog for individual course requirements
	NUR 205 Adult Medical-Surgical I	7		
	NUR 215 Adult Medical-Surgical II-Including IV Therapy	7		
	NUR 225 Maternal and Pediatric Nursing	7		
	NUR 230 Community/Mental Health Nursing	2		
	NUR 240 Management	1		None
	BCS 132 Allied Health Nutrition	3		
	ENG 101 Composition I	3		Grade of "NC" or better in ENG 050 and RDG 050 or satisfactory score on the Placement Assessments
	PSY 110 Introduction to Psychology	3		None
Total Credit Hours Required for Associate of Science		49		Each student must apply for graduation and complete the exit assessment to be eligible to graduate. The graduation application is student initiated by submission of the Application for Graduation form. The form is available through AccessOTC.

*BCS 165 and BCS 205 may be substituted for BCS 145 and BCS 146 (BCS 145/146 are encouraged due to transfer options)

Occupational Therapy Assistant

A.A.S. Degree: 82 Hours

The Occupational Therapy Assistant program is designed to prepare students for generalized practice under the supervision of an occupational therapist. Through didactic, laboratory and clinical education components, students will have the opportunity to gain understanding of practice with clients ranging in age from the very young to the very old. Practice within a variety of settings including school, medical, work, community and mental health will be explored.

Students may take the "Program Specific Courses" only if they have been admitted into the program. A separate application process is required for acceptance into this program. A new class begins each fall semester. The application deadline for the program is April 15. Contact the Allied Health office for an application packet.

Students admitted into the OTA program are required to adhere to strict program attendance and professional behavior standards in order to participate, progress and graduate from the OTA program.

The Occupational Therapy Assistant Program has been granted accreditation by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA). AOTA is located at 4720 Montgomery Lane, Ste 200, P.O. Box 31220, Bethesda, MD 20814-3449. ACOTE's telephone number c/o AOTA is (301) 652-6611.

Graduates of the program are eligible to apply to sit for the National Certification Examination for the Occupational Therapy Assistant. This test is administered by the National Board for Certification in Occupational Therapy (NBCOT). After successful completion of this exam, the individual will be a Certified Occupational Therapy Assistant (COTA).

In addition, most states, including Missouri, require licensure in order to practice. State licenses are based on information obtained through an application and results of the NBCOT examination. Felony convictions may affect a graduate's ability to sit for the NBCOT exam or attain state licensure. For information regarding Missouri licensure, contact the Missouri Board of Occupational Therapy, Division of Professional Registration, P.O. Box 1335, Jefferson City, Missouri, 65102, or phone (573) 751-0877. NBCOT can be found on the web at NBCOT.org.

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Occupational Therapy Assistant

A.A.S. Degree: 82 Hours

Occupational Therapy Assistant Program Requirements		Credits	Semester Taken	Prerequisites
Pre-admission Requirements	BCS 145 Anatomy and Physiology I	4		Grade of "NC" or better in ENG 050 or grade of "NC" or better in RDG 050 or equivalent scores on placement assessment
	BCS 146 Anatomy and Physiology II	4		Grade of "C" or better in BCS 145
	COM 100 Intro to Communication	3		None
	ENG 101 Composition I	3		Grade of "NC" or better in ENG 050 and RDG 050 or satisfactory score on the Placement Assessments
	SOC 101 Introduction to Sociology	3		None
	PLS 101 American Government and Politics	3		
	PSY 110 Introduction to Psychology	3		
Total Credit Hours for Pre-admission Requirements		23		
Associate of Applied Science (All courses must be completed with a grade of "C" or better)	OTA 100 Occupational Therapy Foundations	3		See course descriptions section of the catalog for individual course requirements
	OTA 105 Perspectives on Health	3		
	OTA 110 Dynamics of Human Movement	4		
	OTA 120 Therapeutic Media	3		
	OTA 130 Principles of Neuroscience	2		
	OTA 200 Therapeutic Design	3		
	OTA 210 Occupational Therapy in Early Development	4		
	OTA 211 Practicum I	1		
	OTA 220 Occupational Therapy in Mental Health	4		
	OTA 240 Occupational Therapy in Physical Dysfunction	5		
	OTA 241 Practicum II	1		
	OTA 250 Occupational Therapy in Adult Development	4		
	OTA 260 Occupational Therapy in Outpatient Settings	4		
	OTA 270 Seminar	1		
	OTA 280 Practice Applications	5		
	OTA 285* Practicum III	6		
	OTA 286* Practicum IV	6		
Total Credit Hours Required for Associate of Science (All coursework and fieldwork must be completed prior to submitting application to sit for the NBCOT exam)		82		Each student must apply for graduation to be eligible to graduate. The graduation application is student initiated by submission of the Application for Graduation form. The form is available through AccessOTC.

Note: As required by Missouri law, all degree programs must include instruction in both the U.S. and the Missouri State Constitution. This can be satisfied by either PLS 101 or both HST 120 and HST 130.

* Must be completed within 18 months of completion of all other OTA coursework

ASSOCIATE OF APPLIED SCIENCE DEGREE (A.A.S.)

Physical Therapist Assistant

A.A.S. Degree: 69 Hours

The Physical Therapist Assistant program is designed to prepare graduates to practice as an assistant to a physical therapist in a variety of health care settings. Graduates are eligible to apply to sit for the national licensing exam. The limited and selective admission phase of the program begins in Semester III after successful completion of the required general education courses. The selective admission phase of the program will include didactic and laboratory coursework, as well as supervised clinical education experiences, to prepare graduates to function in the health care delivery system under the supervision of a physical therapist.

Students may take the "Program Specific Courses" only if they have been admitted into the program. A separate application process is required for acceptance into this program. A new class begins each spring semester. The application deadline for the program is September 1. Contact the Allied Health office or visit otc.edu/alliedhealth/1904.php for an application packet.

The Physical Therapist Assistant Education Program of Ozarks Technical Community College is accredited by the Commission on Accreditation in Physical Therapy Education of the American Physical Therapy Association. For further information on accreditation contact:

Commission on Accreditation in Physical Therapy Education/American Physical Therapy Association, 1111 N. Fairfax Street, Alexandria, VA 22314, (703) 684-2782.

Physical Therapist Assistant Program Requirements		Credits	Semester Taken	Prerequisites
Pre-Admission Requirements	BCS 145 Anatomy and Physiology I	4		Grade of "NC" or better in ENG 050 or grade of "NC" or better in RDG 050 or equivalent scores on placement assessment
	BCS 146 Anatomy and Physiology II	4		Grade of "C" or better in BCS 145
	Communication Elective	3		None
	ENG 101 Composition I	3		Grade of "NC" or better in ENG 050 and RDG 050 or satisfactory score on the Placement Assessments
	MTH 110 Intermediate Algebra	3		Grade of "NB" or "NA" in MTH 050 or satisfactory score on the Mathematics Placement Assessment
	PLS 101 American Government and Politics	3		None
	PSY 110 Introduction to Psychology	3		
Total Credit Hours for Pre-admission Requirements		23		
Associate of Applied Science (All courses must be completed with a grade of "C" or better)	PTA 100 Introduction to Physical Therapist Assistant	2		Admission to the PTA program
	PTA 140 Basic Neuroscience and Motor Development	1		
	PTA 200 Therapeutic Procedures	6		
	PTA 220 Physical Agents and Therapeutic Massage	4		See course descriptions section of the catalog for individual course requirements
	PTA 225 Clinical Kinesiology	5		
	PTA 230 Therapeutic Exercise I/ Ortho and Cardio Conditions	4		
	PTA 240 Therapeutic Exercise II/Neuro Conditions	3		
	PTA 250 Clinical Education I	3		
	PTA 260 Professional Behaviors for the PTA	3		
	PTA 270 Selected Topics	2		
	PTA 280 Clinical Education II	10		
	BCS 210* Pathophysiology (must be completed prior to semester IV of program)	3		Grade of "C" or better in BCS 115, BCS 146 or BCS 205
Total Credit Hours Required for Associate of Science		69		Each student must apply for graduation to be eligible to graduate. The graduation application is student initiated by submission of the Application for Graduation form. The form is available through AccessOTC.

Note: As required by Missouri law, all degree programs must include instruction in both the U.S. and the Missouri State Constitution. This can be satisfied by either PLS 101 or both HST 120 and HST 130.

*Recommend this course be completed prior to beginning Semester III; however, it must be successfully completed prior to Semester IV.

Respiratory Therapy

A.A.S. Degree: 76 Hours

The Respiratory Therapy program is accredited by the Committee on Accreditation for Respiratory Care (CoARC). The two-year program graduates are eligible for the national registry exam leading to a Registered Respiratory Therapist (RRT) and eligible for state licensure as a Respiratory Care Practitioner. Registered Respiratory Therapists may work in hospital settings with critical and noncritical patients or for home health companies who specialize in respiratory care and equipment.

This is a limited and selective enrollment program which admits a new class each summer. Interested persons should contact the Allied Health office for applications and procedures. The application deadline for the program is February 15.

Committee on Accreditation for Respiratory Therapy (CoARC), 1248 Harwood Road, Bedford, TX 76021-4244, (817) 283-2835.

Respiratory Therapy Program Requirements		Credits	Semester Taken	Prerequisites
Pre-Admission Requirements	BCS 145 Anatomy and Physiology I (or BCS 165)	4		Grade of "NC" or better in ENG 050 or grade of "NC" or better in RDG 050 or equivalent scores on placement assessment
	BCS 146 Anatomy and Physiology II (or BCS 205)	4		Grade of "C" or better in BCS 145
	BCS 200 Microbiology	4		Grade of "C" or better in BIO 160, BCS 115, BCS 146 or BCS 205. Concurrent enrollment in BCS 146 or BCS 205 is allowed
	RST 105 Cardiopulmonary Anatomy and Physiology	3		BCS 145 or BCS 165
	COM 100 Intro to Communications	3		None
	ENG 101 Composition I	3		Grade of "NC" or better in ENG 050 and RDG 050 or satisfactory score on the Placement Assessments
	MTH 110 Intermediate Algebra	3		Grade of "NB" or "NA" in MTH 050 or satisfactory score on the Mathematics Placement Assessment
	Social Science Elective	3		None
	Social Science Elective	3		
Total Credit Hours for Pre-admission Requirements		30		
Associate of Applied Science (All courses must be completed with a grade of "C" or better)	RST 210 Respiratory Equipment and Therapeutics	3		Admission to the RST program. See course descriptions section of the catalog for individual course requirements
	RST 215 Respiratory Pharmacology	2		
	RST 223 Mechanical Ventilation	4		
	RST 226 Cardiopulmonary Diagnostics I	2		
	RST 227 Cardiopulmonary Diagnostics II	2		
	RST 228 Pulmonary Diseases	3		
	RST 240 Pediatric Respiratory Therapy	3		
	RST 242 Applied Cardiopulmonary Pathology	3		
	RST 251 Special Procedures in Respiratory Care	2		
	RST 253 Advanced Respiratory Therapy Theory	2		
	RST 281 Clinical Practicum I	4		
	RST 282 Clinical Practicum II	8		
	RST 283 Clinical Practicum III	8		
Total Credit Hours Required for Associate of Science		76		Each student must apply for graduation to be eligible to graduate. The graduation application is student initiated by submission of the Application for Graduation form. The form is available through AccessOTC.

Note: As required by Missouri law, all degree programs must include instruction in both the U.S. and the Missouri State Constitution. This can be satisfied by either PLS 101 or both HST 120 and HST 130.

1. If you take BCS 165 in semester 1, you must take CHM 101 semester 1 as it is a prerequisite to BCS 205 in semester.

2. BCS 165 and BCS 205 may be substituted for BCS 145 and 146.

ASSOCIATE OF APPLIED SCIENCE DEGREE (A.A.S.)

Surgical Technology

Certificate: 45 Hours

A.A.S. Degree: 66 Hours

Graduates receive a certificate or an Associate in Applied Science degree designed to prepare them for the national certification exam administered by The National Board of Surgical Technology and Surgical Assisting. Graduates may work in hospital surgery or labor and delivery areas, out-patient surgery centers or as private scrubs for individual surgeons. The Surgical Technology program is reviewed by the Accreditation Review Committee in Surgical Technology and accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP).

Students may take the "Program Specific Courses" only if they have been admitted into the program. A separate application process is required for acceptance into this program. A new class begins each fall semester. The application deadline for the program is March 1. Contact the Allied Health office or visit otc.edu/alliedhealth/1899.php for an application packet.

Accreditation Review Council on Education in Surgical Technology and Surgical Assisting (ARC/STSA), 6 W. Dry Creek Circle, Suite 110, Littleton, CO 80120, (303) 694-9262.

Surgical Technology Program Requirements		Credits	Semester Taken	Prerequisites
Certificate of Achievement: (All courses must be completed with a grade of "C" or better)	BCS 145 Anatomy and Physiology I (or BCS 165)	4		Grade of "NC" or better in ENG 050 or grade of "NC" or better in RDG 050 or equivalent scores on placement assessment
	BCS 146 Anatomy and Physiology II (or BCS 205)	4		Grade of "C" or better in BCS 145
	BCS 200 Microbiology	4		Grade of "C" or better in BIO 160, BCS 115, BCS 146 or BCS 205. Concurrent enrollment in BCS 146 or BCS 205 is allowed
	HIT 191 Medical Terminology	3		Grade of "NC" or better in RDG 050, or satisfactory score on the Reading Placement Assessment.
	SUR 105 Operating Room Technique I	6		See course descriptions section of the catalog for individual course requirements.
	SUR 106 Operating Room Technique II	6		
	SUR 110 Pharmacology for Surgical Technologist	2		
	SUR 120 Surgical Procedures I	8		
	SUR 121 Surgical Procedures II	8		
Total Credit Hours Required for Certificate of Achievement		45		Student wishing to complete the Certificate of Achievement should submit the Application for Graduation form. The form is available through AccessOTC.
Associate of Applied Science (All courses must be completed with a grade of "C" or better)	Certificate of Achievement courses	45		
	CIS 101 Personal Computer Applications	3		Keyboarding skill of 25 WPM or BUS 101 or CIS 100 Recommended
	ENG 101 Composition I	3		Grade of "NC" or better in ENG 050 and RDG 050 or satisfactory score on the Placement Assessments
	MTH 110 Intermediate Algebra (or MTH 130 or higher)	3		Grade of "NB" or "NA" in MTH 050 or MTH 055 or equivalent or satisfactory score on the Mathematics Placement Assessment
	BCS 210 Pathophysiology	3		Grade of "C" or better in BCS 115, BCS 146 or BCS 205 or concurrent enrollment
	PLS 101 American Government and Politics	3		None
	PSY 130 Life Span Developmental Psychology	3		
	COM Elective (COM 105)	3		
Total Credit Hours Required for Associate of Applied Science		66		Each student must apply for graduation to be eligible to graduate. The graduation application is student initiated by submission of the Application for Graduation form. The form is available through AccessOTC.

Note: As required by Missouri law, all degree programs must include instruction in both the U.S. and the Missouri State Constitution. This can be satisfied by either PLS 101 or both HST 120 and HST 130.

Welding Technology

Certificate: 32 Hours

A.A.S. Degree: 63 Hours

Depth of training required for entry into the welding occupation depends on the specific needs of employers. In this program, theory and many hours of practice are combined to lead to either the certificate or the Associate of Applied Science degree levels of competency. A broad background allows the student to meet the needs of various graduate employment goals. The lab facility at the Springfield campus is certified by the American Welding Society (AWS), 8669 NW 36 Street #130, Miami, FL 33166-6672, (800) 443-9353.

Welding Technology Program Requirements		Credits	Semester Taken	Prerequisites/Comments
Certificate of Industrial Welding Specialist	WLD 230 Industrial Welding Specialist	32		20-Week Program (see instructions for starting dates. There is early registration for this program, please contact Student Services
Certificate of Achievement	WLD 111 (F) Shielded Metal Arc Welding I	4		None
	WLD 112 (S) Shielded Metal Arc Welding II	4		WLD 111
	WLD 113 (F) Gas Metal and Flux Cored Arc Welding	4		None
	WLD 114 (S) Gas Tungsten Arc Welding	4		
	WLD 221 (F) Advanced Shielded Metal Arc Welding	4		WLD 111 and WLD 112
	WLD 222 (F) Advanced Gas Metal Arc Welding	4		WLD 113
	WLD 223 (S) Advanced Flux Cored Welding/SMAW Pipe Welding	4		WLD 113 and WLD 221
	WLD 224 (S) Advanced Gas Tungsten Arc Welding	4		WLD 114
Total Credit Hours Required for Certificate of Achievement		32		Student wishing to complete the Certificate of Achievement should submit the Application for Graduation form. The form is available through AccessOTC.
Associate of Applied Science	Certificate of Achievement courses or Certificate of Welding Specialist	32		
	WLD 225 (F) Welding Inspection Technology I	4		None
	WLD 226 (S) Welding Inspection Technology II	4		WLD 225
	WLD 290 Co-Operative Ed/Intern/Related Elective	1-3		Completion of 30 credit hours of program specific courses and 2.0 GPA and approval of Department Chair
	TEC 285 Occupational Seminar	1		Minimum of 30 hours toward degree program or advisor's approval.
	ENG 101 Composition I	3		Grade of "NC" or better in ENG 050 and RDG 050 or satisfactory score on the Placement Assessments
	HLT 101 Health and Wellness	2		None
	TEC 108 Applied Technical Mathematics (or MTH 105 or higher)	3		
	Communication Elective	3		See course descriptions section of the catalog for individual course requirements
	Social Science Elective	3		
	Social Science Elective	3		
	Science Elective (PHY preferred)	4		
	Exit Exam			See degree audit for course number
Total Credit Hours Required for Associate of Applied Science		63		Each student must apply for graduation and complete the exit assessment to be eligible to graduate. The graduation application is student initiated by submission of the Application for Graduation form. The form is available through AccessOTC.

Note: As required by Missouri law, all degree programs must include instruction in both the U.S. and the Missouri State Constitution. This can be satisfied by either PLS 101 or both HST 120 and HST 130.

Related Electives: May choose courses from the following program areas: CST, DDT, IMT, MTT, WLD

Variable Courses

Credit Hours-Lecture-Lab
X=Variable

FOREIGN LANGUAGE INSTITUTE COURSES**Explanation**

The following classes are offered through the Foreign Language Institute (FLI), a collaborative venture between several area institutions established to increase students' access to languages. Most courses offered through the FLI meet at the Jim D. Morris Center located at the corner of Jefferson and McDaniel streets in downtown Springfield. Students pay regular tuition and fees to OTC, and the grades and credits for FLI courses appear on their OTC transcript. More specific information about the FLI can be found at <http://fli.missouristate.edu>.

----101 Foreign Language

This course is the first part of the introductory sequence in the offered language. Student acquire basic communication skills in the interpersonal, interpretive, and presentational modes as well as an understanding of peoples, products, and practices related to the offered language.

----102 Foreign Language

This course is the second part of the introductory sequence in the offered language. Students continue to acquire and reinforce novice-level communication skills in the interpersonal, interpretive, and presentational modes while deepening their understanding of the language and culture.

----201 Foreign Language

This course is the first part of the intermediate sequence in the offered language. Students continue to develop proficiency in the interpersonal, interpretive, and presentational modes and learn to communicate in culturally appropriate ways.

----202 Foreign Language

This course is the second part of an intermediate sequence in the offered language. Students continue to acquire and reinforce intermediate-level communication skills in the interpersonal, interpretive, and presentational modes while deepening their understanding of the connections between language and culture.

VARIABLE CREDIT COURSES**----295 Special Topics**

Special Topics is a course of variable topics not covered in other courses. Course may be repeated twice for a total of six (6) hours, provided the same topic is not duplicated. Supplemental course fees may apply (variable by section). This course is not offered every semester. Please check under the appropriate course code of the current semester schedule to see if it is offered.

----296 Directed Study

Directed Study is an opportunity for a student to obtain credit through individualized, independent work in a field of study appropriate for the student's future goals. The class will be developed in collaboration with an instructor and approved by the appropriate Dean. This option may be utilized in circumstances necessary to fulfill specified degree electives. This course will not be listed in the course schedule. Please see the department chair if interested in this course.

----298 Study Abroad

Short-term study abroad opportunities are offered to provide expanded learning opportunities, cultural developments and career education to prepare students for an increasingly global community. Participants can earn college credits in a variety of academic areas while expanding their understanding of other cultures and gaining new skills. This course is not offered every semester. Please check under the appropriate course code of the current semester schedule to see if it is offered.

(ABR) AUTO COLLISION REPAIR TECHNOLOGY**ABR-100 Non-Structural Analysis and Repair 4-2-4**

This course provides the basics in auto collision repair, personal safety, shop safety, use of tools and equipment, use and handling of repair materials, diagnosis and classification of damage, physical characteristics of metal and repair of damaged sheet metal. This program is ASE accredited by the National Automotive Technicians Educational Foundation (NATEF).

ABR-110 Paint and Refinishing Preparation 4-2-4

This is a beginning course for students interested in auto refinishing. Topics include: safety, surface preparation, spray gun and related equipment, and operations. All classroom, demonstration, and laboratory instruction are related to the Automotive Service Excellence, (ASE) area of paint and refinishing preparation. This program is ASE accredited by the National Automotive Technicians Educational Foundation (NATEF).

ABR-113 Damage Repair Metal Welding and Cutting 4-2-4

Note: Course only offered in the fall semester. This course provides the basics in MIG welding, plasma cutting, resistance welding, equipment, materials, and techniques currently used in the auto collision repair industry. This program is ASE accredited by the National Automotive Technicians Educational Foundation (NATEF).

ABR-200 Non-Structural Analysis and Damage Repair 4-2-4

Note: Course only offered in the fall semester. This course provides the basics in auto collision repair with topics such as safety, body panel repairs, body panel adjustments, body panel replacement and moveable glass and hardware.

ABR-245 Structural Analysis and Dimensioning 4-2-4

Note: Course only offered in the spring semester. This course is designed to provide the basics in auto collision repair with regard to safety, damage analysis, frame inspection, measurement and structural alignment. *Prerequisites: ABR 100, ABR 113, ABR 200 (ABR 200 may be taken concurrently with ABR 245).*

ABR-248 Refinish Color Application 4-2-4

This course is designed for students who are interested in the auto refinishing area. Topics include: paint mixing, matching, applying and solving paint application problems.

ABR-250 Structural Repair 4-2-4

Note: Course only offered in the spring semester. This course covers the basics in auto collision repair with the following topics: safety, damage analysis, straightening structural parts and full or partial panel replacement. *Prerequisite: ABR 245.*

ABR-255 Paint Detail and Defects 4-2-4

This course is designed for students who are interested in the auto refinishing area. Topics include: paint defects, causes and cures and final detailing.

ABR-260 Plastics and Adhesives 3-2-2

Note: Course only offered in the fall semester. This course is designed to introduce students to the fundamentals of plastic repair and adhesives as they apply to auto collision repair. Topics include: plastic types, damage analysis, chemical plastic welding and composite repair tools and adhesives.

ABR-265 Vehicle Control Systems 3-2-2

Note: Course only offered in the spring semester. This course provides basic engine, driveline and differential damage assessment, estimating and parts replacement knowledge in addition to skills applied in classroom and laboratory assignments. *Prerequisite: ABR 260.*

ABR-270 Estimating and Shop Management 3-3-0

Note: Course only offered in the spring semester. This course provides the basics in estimating and shop management as they apply to auto collision repair and is designed for students who are interested in becoming estimators or managers. *Prerequisites: ABR 260.*

ABR-ACC

Credit Hours-Lecture-Lab

X=Variable

ABR-290 Capstone/Co-op/Internship

3-0-0-9

This course provides students the opportunity for supervised work experience in their major field with practical application of the knowledge and skills attained. Students will also apply critical thinking, analytical reading, decision making and valuing skills to issues across the auto collision curriculum. An assessment will give students the opportunity to demonstrate their level of application and learning in the auto collision program. An individualized instructional management plan will determine goals to be accomplished. Seminars may also be required. Please see the department chair of specific program area for application. *Prerequisites: Completion of at least 30 credit hours in auto collision repair courses and a minimum GPA of 2.0, or advisor's approval.*

(ACC) ACCOUNTING

ACC-120 College Accounting, Part I

3-3-0

This course uses a manual bookkeeping approach for a sole proprietorship to teach the give the student a basic understanding of an accounting cycle. Areas of emphasis include the general journal and ledger, adjusting and closing entries, financial statements preparations, cash management and merchandise inventory. *Prerequisite: MTH 105 (or concurrent enrollment) or equivalent score on the placement assessment for entry into MTH 110.*

ACC-125 College Accounting, Part II

3-3-0

This course is a continuation of ACC 120 and includes the following topics: corporate and partnership accounting, long-term assets and liabilities, financial statement analysis and manufacturing accounting. *Prerequisite: Grade of "C" or better in ACC 120.*

ACC-130 Accounting Software Applications

3-3-0

This course uses QuickBooks Accounting Software. To take this course online a student must purchase the same year of QuickBooks software that is being used on campus. Upon successful completion of this course, a student will be able to use the computer software to create a chart of accounts, accounts receivable and payable subsidiary ledgers, transaction journals, general ledgers, financial statements, reports and forecasts. *Prerequisite: Grade of "C" or better in ACC 120 or higher.*

ACC-135 Payroll Accounting

3-3-0

This course is designed to prepare students to perform payroll accounting duties for small businesses. This includes preparing payroll registers, employee earnings records and required government reporting documents. *Prerequisite: Grade of "C" or better in ACC 120 or higher.*

ACC-220 Principles of Accounting I

3-3-0

This course covers basic accounting principles and practices used by corporations in the service and merchandising industries. Students learn accrual accounting terminology and how transactions are recorded during the accounting cycle. These transactions are then used to create four basic financial statements; Income Statement, Statement of Changes in Stockholder's Equity, Balance Sheet and Statement of Cash Flows. Throughout the course students will practice recording the transactions, prepare financial statements, and communicate the information formulated in those statements. *Prerequisite: MTH 105 or equivalent score on the placement assessment for entry into MTH 110.*

ACC-225 Managerial Accounting

3-3-0

Students are taught the uses of accounting information for managerial decision-making. This course provides an introduction to cost accounting and includes the following topics: costing systems, standard costing and variance analysis, budgetary control, ABC costing, variable costing, production and capital decision analysis. *Prerequisite: Grade of "C" or better in ACC 120 or higher.*

ACC-248 Accounting Terminology

3-3-0

This course will introduce students to different accounting terminology and regulations used in governmental/not-for-profit, tax, cost/managerial, fraud, medical, construction, criminology, and other various industries. Students will learn the fundamental differences in accounting for a governmental and not-for-profit entity versus a for-profit entity. Students will compare and contrast balance sheets and income statements for a corporation, partnership, proprietorship, not-for-profit and governmental entity. Tax terminology will be covered with the assignment of completing simple personal and corporate tax returns.

ACC-250 Tax Accounting**3-3-0**

Principles of income tax accounting including current laws and reporting are covered in this course. Students are provided practical experience in preparation of individual returns while introducing proprietorship, partnership and corporate taxes. This course is only offered during the fall semester. *Prerequisite: Grade of "C" or better in ACC 120 or higher.*

ACC-278 Case Study/Capstone**3-3-0**

This course is designed to teach students their ethical obligations in accounting and to help them evaluate the decision making process accountants go through. This will be completed through the study of various accounting scandals, case studies, and interactions with guest speakers. Students will be required to create questions for each guest speaker and report on what they learned. Students will also develop various self-action plans to help cultivate and grow self-initiative and self-motivation. Students will be required to present themselves in a professional manner and must be able to discuss applied accounting topics with various experienced accountants and managers.

ACC-290 Co-Operative Education/Intern/ Related Elective**Variable 1-3**

This course involves supervised work experience in the major field which provides the student with the opportunity to make practical application of the knowledge and skills attained. An individualized instructional management plan will determine goals to be accomplished. Seminars may also be required. *Prerequisite: Completion of 30 credit hours and 2.0 GPA, or advisor's approval. Please see the department chair of the specific program area for application.*

(AGR) AGRICULTURE**AGR-100 Introduction to Agriculture****3-3-0**

This course covers a survey of technological progress of agriculture and the industry it encompasses, including its socio-economic impact on the United States and in a global environment.

AGR-112 Woody Ornamental Identification**4-2-4**

Note: Course is offered in the fall semester. This course will expose students to the identification of commonly used woody landscape plants and allow students to learn the uses and growth requirements of these plants in landscape settings. Labs will be devoted primarily to the identification of the plants, while lectures will cover both identification and landscape use and requirements.

AGR-113 Pest Management**3-2-2**

This course covers all types of ornamental and turf pests, common diseases, identification, symptoms, life cycle and control. Other topics include safety, application and laws. Upon successful completion of this course, the student will be ready to take the Missouri test for private pesticide application and category 3 application.

AGR-114 Environmental Stewardship**2-2-0**

Note: Course is offered in the fall semester. This course examines how the turf and landscape industry impacts the earth's resources; the influences that we have on the natural world both locally and globally; how decisions are made regarding the management of these resources and what factors influence these decisions. The latest innovations in resource management will be presented with the focus being on environmental sustainability.

AGR-145 Landcare Equipment Maintenance**4-2-4**

This course is a basic introduction to equipment maintenance, light mechanical work, engine repair, hydraulics, troubleshooting, electrical systems, oil systems, drive systems, fuel systems, lubrication and maintenance scheduling. Laboratory instruction will provide students an opportunity to safely operate common landscaping equipment.

AGR-160 Animal Science**4-4-0**

This course provides an introduction to farm animal industries, breeds, numbers, distribution, nutrition, heredity, reproduction, health and products.

AGR

Credit Hours-Lecture-Lab
X=Variable

AGR-180 Plant and Soil Science 4-2-4

Note: Course is offered in the fall semester. This course focuses on plant growth and development for all types of plants through classroom and laboratory instruction. Relationships between soils and plants, introduction to soils, nutrient availability, water holding ability, vegetative resource management, proper application of plant foods, and interpretation of soil test analysis results will be included.

AGR-185 Irrigation Design, Installation and Maintenance in the Landscape 3-2-2

Note: Course is offered in the spring semester. This course will include the basics of irrigation design, installation, maintenance and troubleshooting as it pertains to the landscaping industry. Water saving technologies and sprinkler scheduling will also be included through classroom and laboratory instruction. Basic math skills are strongly recommended for successful completion of this course.

AGR-190 Turfgrass Management 4-2-4

Note: Course is offered in the spring semester. This course focuses on the construction, renovation and maintenance of turf areas. Identification, growth requirements, use of commonly used turf grasses, irrigation and weed control are included. Stand establishment with seeding, sod, sprigs and plugging is presented.

AGR-212 Greenhouse Horticulture 3-2-2

Note: Course is offered in the spring semester. This course deals with all areas of greenhouse operations. Specific areas include herbaceous plant identification, growing structures, layout, environment, plant growth and development, growth regulation, identification, propagation, growing medium, containers, cultural care and plant nutrition.

AGR-214 Landscape Design 4-2-4

Note: Course is offered in the fall semester. This lecture/lab course includes the basic principles of landscape design, plan reading, plant installation methods, layout considerations, special features and time estimating through a combination of lecture and laboratory instruction. Aftercare and maintenance of interior and exterior landscapes will also be included.

AGR-215 Landscaping Construction and Maintenance 4-2-4

Note: Course is offered in the spring semester. This is an applied course of the basics of woody ornamental plant installation into the landscape, including timing, methods used and aftercare. Also included is basic plan reading, calculation, cut and fill, cost/time estimating and the use of hardscape materials.

AGR-218 Computer Designs in Landscaping 2-1-2

Note: Course is offered in the spring semester. This course focuses on using a personal computer to complete an electronic landscape design. Digital imaging is utilized to increase marketability of a completed design. Emphasis is placed on practical application of software to develop effective drawings for the green industry. *Prerequisites: AGR 214 and AGR 185 (or concurrent enrollment).*

AGR-220 Turf and Landscape Business Management 3-2-2

Note: Course is offered in the spring semester. This is a basic course in the management and operations of an agricultural business. Included is net worth, profit/loss, employee relations, credit, business management and liability. Current technologies for managing and marketing a Turf and Landscape business will be introduced.

AGR-225 Urban Forestry 4-4-0

This course provides students with an introduction to arboriculture and provides a basis for planning and managing of forest areas in urban settings. Students learn the social and economic value placed on trees in an urban setting and how human activities may impact the urban forest.

AGR-235 Soils 3-2-2

This course provides an introduction to the physical, chemical and biological activities within the soil including soil genesis, morphology, development, land description, nutrient availability, water holding ability, vegetative resource management, plant growth and recreational use, fertilizer application and soil test analysis.

AGR–ANT–ART

Credit Hours-Lecture-Lab

X=Variable

AGR-280 Turf and Landscape Management Capstone 2-2-0

Note: Course is offered in the spring semester. This course involves a comprehensive assessment of the entire turf and landscape management option. Students apply critical thinking, decision-making and problem solving skills to a landscape project. The student must score a "C" or better to complete the degree option. *Prerequisite: Completion of a minimum of 36 credit hours in the Turf and Landscape Management option.*

AGR-290 Co-Operative Education/Internship 3-0-0

This course encompasses a supervised work experience in the major field which provides the student with the opportunity to make practical application of the knowledge and skills attained in coursework. An individualized instructional management plan will determine goals to be accomplished. Seminars may also be required. *Prerequisites: Completion of 30 credit hours and 2.0 GPA, or advisor's approval. Please see the department chair of the specific program area for application.*

(ANT) ANTHROPOLOGY**ANT-101 Introduction to Anthropology 3-3-0**

This course introduces the student to the four sub-fields of anthropology: physical/biological, ethnology/cultural, linguistic and archaeological/material. The human condition will be studied using the various methods and theories that are specific to each sub-discipline.

ANT-220 Cultural Anthropology 3-3-0

Cultural Anthropology, also known as ethnology, social anthropology or sociocultural anthropology, is the largest of the four 'fields' or sub-disciplines of anthropology. Cultural anthropologists study the ways in which people live throughout the world and write accounts of cultures, known as ethnographies, to gain insights into the human condition. Cultural anthropology also compares the ways of living, developing concepts and theories that apply to all cultures and making cross-cultural generalizations about human behavior. *Prerequisite: ANT 101 or SOC 101.*

(ART) ART**ART-101 Art History I 3-3-0**

This course covers an illustrated study of the history of art. Vocabulary of the basic art elements will be covered as well as the study of prehistoric art through the Gothic period. Major works of paintings, sculptures and architecture will be explored.

ART-105 Art History II 3-3-0

This course covers an illustrated study of the history of art. Vocabulary of the basic art elements will be covered as well as the study of the Renaissance through Contemporary movements. Major works of paintings, sculptures and architecture will be explored.

ART-110 Art and Experience 3-3-0

This course introduces the visual arts in the context of history and culture providing students with knowledge and practice in the skills necessary to make art a greater part of everyday life. It involves analysis of art works and introduces terminology and concepts for understanding the study of style, design, technique, iconography and function of art within various cultural matrices. This course provides an introduction to the western artistic and cultural tradition and provides students with knowledge of and practice in the skills necessary to make art a greater part of everyday life. In addition to learning to recognize and explain art from the major periods and styles in the western tradition, students also practice describing and reflecting upon their experience of particular works and investigate the creation of art.

ART-115 Foundation I: Two-Dimensional Design 3-2-4

Elements of design are explored through a variety of methods and mediums of two-dimensional design. Techniques are explored through the solution of two-dimensional design problems.

ART

Credit Hours-Lecture-Lab
X=Variable

ART-116 Foundation II: Three-Dimensional Design 3-2-4

This course provides continuation of two-dimensional design with emphasis on three-dimensional concepts. Elements of design are explored in a variety of methods of three-dimensional construction. Sculptural techniques are explored through the solution of design problems.

ART-120 Drawing I 3-0-6

This course introduces basic visual art concepts, ideas and techniques that emphasize design principles and hand-eye coordination. The student will solve a variety of drawing problems with different methods and media. Students will become familiar with the basic vocabulary of the drawing process.

ART-121 Drawing II 3-0-6

This course expands on the basic visual art concepts, ideas and techniques that emphasize drawing principles and hand-eye coordination previously learned. The student solves more complex drawing problems with different methods and media. Students increase their vocabulary and observational drawing skills. This course serves as an introduction to drawing the nude human figure. *Prerequisites: Grade of "C" or better in ART 120.*

ART-125 Painting I 3-2-4

This is an introductory course, designed to strengthen the individual student's awareness of the history and techniques of the craft of painting. This course will develop the student's technical and observational skills. The course concentrates on the essential elements of painting: its materials, methods and craft. This course develops the student's understanding of brushwork, composition and color. Students learn painting terminology and the importance of dialog in the creative process.

ART-126 Painting II 3-0-6

This course extends the knowledge and techniques learned in Painting I and is designed to further enhance and strengthen the student's awareness of the history and techniques of the art of painting. This course concentrates on the essential elements of painting: its materials, methods and craft. Students expand their exploration in painting media and techniques and strive to achieve the beginnings of personalized pictorial expression and demonstrate an understanding of the characteristics of the media. *Prerequisite: Grade of "C" or better in ART 125.*

ART-130 Printmaking I 3-2-4

This is an introductory course in traditional and contemporary printmaking techniques. The student learns a variety of printmaking techniques from a selection of monotypes, woodcut blocks, linoleum blocks, serigraphs, etchings and solvent transfers.

ART-135 Ceramics I 3-2-4

This course is a study of the basic principles of ceramics and ceramic sculpture with emphasis on hand-built methods. Wheel thrown pottery and the various processes of working in clay including glazing and firing are explored. Students learn the skills needed for traditional hand-building and wheel-throwing techniques as well as non-traditional approaches to ceramics.

ART-210 Portfolio Development 1-1-0

This class is designed to help prepare students for a major in Visual Arts to successfully transfer to a B.F.A. or B.A. program in Art. The student establishes a portfolio and studies the professional activities associated within the larger art world. Students learn appropriate ways to present their work, how to write about their ideas, how to document artwork in electronic form, guidelines and conventions for writing a resume, research into area art programs, career topics and exhibitions.

ART-220 Drawing III 3-2-4

Building on Drawing II, this class expands upon the development and execution of ideas using traditional and non-traditional media. Students are introduced to various types of drawing styles and challenge traditional definitions of drawing. They complete projects in drawing the nude model, complex perspective, environmental art, ephemeral drawings, installation art and develop a portfolio and artist's statement. *Prerequisite: ART 121.*

ART-221 Drawing IV 3-2-4

This course builds upon Drawing III and is considered an advanced course. Students are expected to be self-directed in their choice of subject matter. Students explore historical and contemporary issues in drawing and continue to develop their body of work to enhance their professional portfolio. *Prerequisite: Grade of "C" or better in ART 220.*

ASL–ASN

Credit Hours-Lecture-Lab

X=Variable

(ASL) AMERICAN SIGN LANGUAGE**ASL-101 American Sign Language I 3-3-0**

This course introduces students to the basic structural principles of American Sign Language and emphasizes visual reception and expression of signed concepts.

ASL-102 American Sign Language II 3-2-2

This course continues development of the basic knowledge and understanding of conversational American Sign Language and expands on the cultural features of the language and the deaf community. *Prerequisite: ASL 101.*

ASL-115 Fingerspelling and Numbers 3-3-0

This course provides students the opportunity to develop increased fluency in their expressive and receptive abilities in fingerspelling through in-class practice and viewing of additional materials. Students also reinforce their abilities to utilize American Sign Language numbering systems for time, money, measurements, sports, and scientific numbering. *Prerequisite: Grade of "C" or better in ASL 102.*

ASL-201 American Sign Language III 3-2-2

This course offers the American Sign Language student the opportunity to polish their expressive and receptive skills in classroom and conversational environments. Emphasis is on the transition from simply learning vocabulary to learning good conversational skills. *Prerequisite: Grade of "C" or better in ASL 102.*

ASL-202 American Sign Language IV 3-2-2

This course builds on what was learned in American Sign Language III. It offers the advanced American Sign Language student the opportunity to polish their expressive and receptive skills at an advanced level. Emphasis is on the use of classifiers, role shifting, listing, using space and communicating money issues, major decisions and health conditions in ASL discourse. The focus is on utilizing all American Sign Language skills simultaneously and fluently. *Prerequisite: Grade of "C" or better in ASL 201.*

ASL-205 Introduction to Interpreting 3-3-0

This course is an overview of the field of sign language interpreting as theory practice. It is offered as a fourth semester course in conjunction with ASL 202. This course allows students to apply the interpreting skills learned in the previous semesters to the practice of interpreting. The class provides historical, theoretical, ethical frameworks. The class is a place for learning, practicing and receiving feedback on the interpreting process. *Prerequisite: Grade of "C" or better in ASL 201.*

(ASN) ASSOCIATE OF SCIENCE IN NURSING**ASN-200 Transition to Professional Nursing 2-1-2**

This is a transition course between the knowledge base as a Licensed Practical Nurse (LPN) to the introduction of the knowledge base of a professional Registered Nurse (RN). *Prerequisite: Admission to the ASN program.*

ASN-210 Advanced Nursing Through the Lifespan I 4-3-0-3

This course focuses on contemporary nursing of the adult client with complex health alterations. *Prerequisite: ASN 200.*

ASN-215 Advanced Psychiatric/Mental Health Nursing 2-1-0-3

This course focuses on contemporary nursing of the client through the lifespan with psychiatric/mental health alterations. *Prerequisites: ASN 200 and concurrently with ASN 210.*

ASN-220 Advanced Nursing Through the Lifespan II 5-4-0-3

This course focuses on contemporary nursing of the adult client with complex health alterations. *Prerequisites: ASN 200, ASN 210, ASN 215 and concurrently with ASN 225.*

ASN–ATS–AUM

Credit Hours-Lecture-Lab

X=Variable

ASN-225 Advanced Family Centered Maternal/ Newborn Nursing 2-1-0-3

This course focuses on contemporary nursing of the childbearing family from pregnancy through birth. *Prerequisites:* ASN 200, ASN 210, ASN 215 and concurrently with ASN 220.

ASN-230 Advanced Nursing Through the Lifespan III 4-3-0-3

This course focuses on contemporary nursing of the adult client with complex health alterations. *Prerequisites:* ASN 200, ASN 210, ASN 215, ASN 220, ASN 225 and concurrently with ASN 235.

ASN-235 Advanced Pediatric Nursing Concepts 2-1-0-3

This course focuses on contemporary nursing of the family from neonate through adolescence. *Prerequisites:* ASN 200, ASN 210, ASN 215, ASN 220, ASN 225 and concurrently with ASN 230.

ASN-240 Community Health and Management 2-1-0-3

This course focuses on contemporary nursing in the community setting of the adult client with health care alterations. *Prerequisites:* ASN 200, ASN 210, ASN 215, ASN 220, ASN 225, ASN 230, ASN 235 and concurrently with ASN 250.

ASN-250 Professional Nursing Integration 3-2-0-3

This course is designed to provide the student with in-depth clinical experiences within a chosen client care setting. *Prerequisites:* ASN 200, ASN 210, ASN 215, ASN 220, ASN 225, ASN 230, ASN 235 and concurrently with ASN 240.

(ATS) APPLIED TECHNICAL SCIENCE

ATS-100 Introduction to Scientific Research 1-1-0

This course is an interdisciplinary investigation into scientific research. The various processes of scientific inquiry will be studied to provide students with a better understanding of the scientific method. Guest speakers, field trips, and journal articles will allow students to experience the critical thinking of research problems.

(AUM) AUTOMOTIVE TECHNOLOGY

AUM-110 Engine Repair 4-2-4

This course teaches the occupational competencies needed to perform preventive maintenance and repair methods, engine measurement and assembly required of an entry level technician. The instruction will include classroom demonstration and practical exercises in a lab setting related to the Automotive Service Excellence (ASE) area of Engine Repair. This program is ASE accredited by the National Automotive Technicians Educational Foundation (NATEF).

AUM-121 Engine Diagnosis and Repair 4-2-4

This course introduces students to the techniques and fundamentals used in order to properly diagnose and repair internal combustion engines. Students will further explore the theory and operation of the engine's operating systems such as fuel, air, ignition, oiling and cooling systems. Students will perform test adjustments on each of these systems including an internal combustion engine. Examples include both dynamic and static compression testing, ignition timing, valve timing (both overhead valve and overhead cam), cooling system pressure and head gasket leak.

AUM-135 Manual Drive Train and Axles 4-2-4

This course develops each student's occupational competencies needed to perform preventive maintenance and repair methods required of an entry level technician. The instruction will include classroom, demonstration and practical exercises related to the Automotive Service Excellence (ASE) area of Manual Drive Train and Axles.

AUM-171 Electrical I**4-2-4**

This course teaches the occupational competencies required of an entry level technician which are needed to perform preventive maintenance and repair methods for automotive electrical systems. Instruction will include classroom demonstration and practical exercises related to the Automotive Service Excellence (ASE) area of Automotive Electrical Systems. This program is ASE accredited by the National Automotive Technicians Educational Foundation (NATEF).

AUM-175 Electrical II**4-2-4**

Note: Course only offered in the spring semester. This course develops each student's occupational competencies needed to perform preventive maintenance and repair methods required of an entry level technician. The instruction will include classroom demonstration and advanced practical exercises related to the Automotive Service Excellence (ASE) area of Electrical Systems. Lighting systems, gauges, warning devices, and driver information systems will be covered, as well as accessories and safety equipment diagnosis and repair. *Prerequisite: AUM 171.*

AUM-185 Heating and Air Conditioning**4-2-4**

This course introduces students to the theory and operation of the components which make up the automotive heating and air conditioning system. Students will handle refrigerants using EPA approved techniques including the use of a recovery station. Component identification, function, and replacement will be performed on different types of systems. System diagnosis will be covered prior to the replacement of components. *Prerequisite: AUM 171.*

AUM-210 Brakes**4-2-4**

Note: Course only offered in the spring semester. This course is designed to develop occupational competencies relative to modern braking systems. The specific study units include the following: physical principles which affect brake system performance, hydraulics, mechanical linkages and levers, power assist systems including pressure, vacuum and electrical over hydraulic sub-systems, drum and disc brakes, lines and hoses. Students will be using the latest traditional as well as Dynamic test equipment to check, service and repair automotive brake systems. Classroom demonstrations as well as laboratory exercises are utilized to meet or exceed Automotive Service Excellence (ASE) standards in the area of Brakes.

AUM-215 Steering and Suspension**4-2-4**

Note: Course only offered in the fall semester. This course teaches the occupational competencies related to the geometric and physical properties of modern wheel alignment. It includes service and repair of general chassis and suspension systems. Students will apply classroom theory within a laboratory environment duplicating the automotive shop environment. All classroom, demonstration, and laboratory instruction are related to the Automotive Service Excellence (ASE) area of Steering and Suspension. This program is ASE accredited by the National Automotive Technicians Educational Foundation (NATEF).

AUM-221 Engine Performance I**4-2-4**

This course introduces students to the theory and operation of electronic controlled engine systems. Students will explore the theory and operation behind electronic ignition, computer controlled fuel injection and inputs and outputs dealing with OBD I type vehicles. Students will use diagnostic equipment such as electronic scanners for code retrieval and to interpret the readings of different computer controlled sensors and components. Students will learn basic fundamentals for diagnosing engine performance problems and testing different sensors and components for proper operation. *Prerequisites: AUM 121 and AUM 171.*

AUM-222 Advanced Engine Performance**4-2-4**

Note: Course only offered in the spring semester. This course introduces students to the theory and operation of distributorless ignition, emission systems, and inputs/outputs dealing with OBD II type vehicles. Students will further explore techniques used in the diagnosis and repair of engine performance issues. Students will use diagnostic equipment such as scanner, lab scopes, oscilloscopes and 5-gas analyzers. *Prerequisite: AUM 221.*

AUM-233 Automatic Transmission and Trans Axle**4-2-4**

This course combines the study of planetary gear trains, hydraulics and electronics in the repair of automatic transmissions. A "hands on" approach is taken to learning and applying fluid dynamics and epicyclic (planetary) gear train components. Students will remove and install a transmission in a vehicle, use current industry tools and techniques to diagnose transmission problems and completely overhaul a front wheel drive transaxle. Upon completion of the transaxle overhaul, the student will be required to set up and test the operation of the overhaul using a transmission dynamometer. *Prerequisite: AUM 171.*

AUM–BCS

Credit Hours-Lecture-Lab
X=Variable

AUM-290 Capstone/Co-op/Internship 3-0-0-9

This course provides students the opportunity for supervised work experience in their major field with practical application of the knowledge and skills attained. Students will also apply critical thinking, analytical reading, decision making and valuing skills to issues across the automotive technology curriculum. An assessment will give students the opportunity to demonstrate their level of application and learning in the auto collision program. An individualized instructional management plan will determine goals to be accomplished. Seminars may also be required. Please see the Chair of specific program area for application. *Prerequisites: Completion of at least 30 credit hours in automotive technology courses and a minimum GPA of 2.0 or advisor's approval.*

(BCS) BIOLOGICAL CLINICAL SCIENCE

BCS-102 Introduction to Biological Clinical Sciences 3-2-2

This course is designed to give students with a limited science background an introduction to the Biological Clinical Sciences. This course will review basic concepts in science study skills, biology, chemistry and anatomy and physiology. An introduction of lab techniques will be given.

BCS-115 Survey of Anatomy and Physiology 3-2-2

This course is a survey of the structures and functions of the human body. Students will study both the anatomy and physiology of the human body.

BCS-132 Allied Health Nutrition 3-3-0

This course is a survey of human nutrition for Pre-Allied Health majors. Students will study the different nutrients found in food, food grouping systems, the human digestive system, body weight maintenances, immunity and disease prevention, nutrition through lifespan, and food processing technology. Students will also study the different dietary requirements for disease treatment.

BCS-145 Anatomy and Physiology I 4-3-2

This course is the first in a two-semester sequence. The course introduces the survey of structures and functions of the human body. This course covers the following topics: biological chemistry, homeostasis, cell structure and function, cell division, tissues, integumentary system (skin), skeletal system and muscle structure. *Prerequisites: "NC" or better in ENG 050 or equivalent score on placement assessment and "NC" or better in RDG 050 or equivalent score on placement assessment.*

BCS-146 Anatomy and Physiology II 4-3-2

This is the second course in the two-semester sequence to follow BCS 145. This course provides further study of the structure and function of the human body. Topics covered include the muscle function and the following body systems: nervous, endocrine, cardiovascular, respiratory, urinary, immune, digestive and reproductive. Laboratory activities give students the ability to see and synthesize materials presented in lecture. A cat cadaver will be dissected. *Prerequisite: Grade of "C" or better in BCS 145.*

BCS-165 Human Anatomy 4-3-2

Microscopic and macroscopic examination of the human body structures and systems are the focus of this course. Students evaluate the integration of the various systems within the entire body. The laboratory provides an opportunity for identification and evaluation of representative human models and slides and dissection of comparable mammalian organ systems.

BCS-200 Microbiology 4-3-2

This course entails a study of the structure, growth, control, classification and identification of microorganisms. In the laboratory students learn basic aseptic techniques and become familiar with common laboratory procedures. *Prerequisite: Grade of "C" or better in BIO 160, BCS 115, BCS 146 or BCS 205. Concurrent enrollment in BCS 146 or BCS 205 is allowed.*

BCS–BIO

Credit Hours-Lecture-Lab

X=Variable

BCS-205 Human Physiology 4-3-2

This course examines the organization and function of the human body as a whole and the interrelationships of the various systems. The laboratory teaches the fundamental techniques necessary for the study of life processes. Laboratory activities give the students an opportunity to illustrate principles presented in lecture. *Prerequisites: Grade of "C" or better in BCS 165 and a grade of "C" or better in CHM 101.*

BCS-210 Pathophysiology 3-3-0

This survey course studies the changes in normal anatomy and physiology of the human body. Disease processes are studied and the disruption of homeostasis is emphasized. Also included is the correlation between the pathology of the disease process and clinical signs and symptoms of the disease. *Prerequisite: Grade of "C" or better in BCS 115, BCS 146 or BCS 205.*

(BIO) BIOLOGY**BIO-100 Life Science 4-3-2**

This course covers a study of the biological principles that apply to all living systems. A survey of living organisms with an emphasis on how life functions on earth and how living things have adapted over time is explored. Laboratory activities give students the opportunity to apply biological principles presented in lecture.

BIO-105 Environmental Science 4-3-2

This course provides a study of how human population affects the earth's ecosystems by its use of earth's resources and disposal of their waste products. Critical thinking is emphasized.

BIO-135 Nutrition for Living 3-3-0

This course is a survey of human nutrition. Students will study the different nutrients found in foods, food grouping systems, the human digestive system, body weight maintenance, immunity and disease prevention, nutrition throughout the lifespan and food processing technology.

BIO-142 Essential Biology 3-3-0

This course provides a study of the biological principles that apply to all living systems, including ecological principles. In addition, this course provides a survey of living organisms with an emphasis on how life functions on Earth and how living things have adapted over time. *Prerequisite: BCS 115, or BCS 145 or BCS 165.*

BIO-160 General Biology I 4-3-3

This course is an introductory biology course for biology majors and minors. It provides an introduction to the concepts of biological structure and function at the molecular and cellular level, genetics and evolution. Students have the opportunity to demonstrate in the laboratory the principles presented in lecture. *Prerequisite: CHM 101 or CHM 160 and 161 or concurrent enrollment.*

BIO-170 General Biology II 4-3-3

This is the second half of a two-semester biology sequence. This course introduces the student to the biology of organisms, including evolutionary history, diversity, structure and function of major taxa and ecology. Laboratory work gives students an opportunity to illustrate the principles presented in lecture. Laboratory activities include computer simulations of complex systems and dissection of different organisms. *Prerequisite: CHM 101 or CHM 160 and 161 or concurrent enrollment.*

BIO-250 Genetics 4-3-3

This course is an introduction to basic concepts of molecular, Mendelian genetics and an inquiry into the basic processes of evolution. Basic laboratory techniques in genetics are performed. *Prerequisites: Grade of "C" or better in CHM 101 or CHM 160 and 161, BIO 100 or BCS 120 or BCS 146 or BCS 205 or BIO 160; and MTH 110.*

BIO-275 Environmental Biology 4-3-3

This course studies basic ecological principles with application and relevance to environmental issues. Students have the opportunity in the laboratory to demonstrate principles presented in lecture. *Prerequisites: BIO 160 or BIO 170 or concurrent enrollment and grade of "C" or better in CHM 101 or CHM 160 and 161.*

BIO–BUS

Credit Hours-Lecture-Lab

X=Variable

BIO-290 Co-Operative Ed/Intern/Related Elective

Variable 1-3

This course provides students with supervised work experience in the major discipline, which allows the student the opportunity to make practical application of the skills and knowledge attained. An individual application and instructional management plan determines course goals. *Prerequisites:* Complete 30 credit hours or more and permission of department chair.

BIO-292 General Microbiology

5-3-4

The structure and function of bacteria, viruses and fungi are studied. The diversity of the microbial world and their role in the environment are also explored. Students master basic laboratory techniques in microbiology and have an opportunity to perform some of the more advanced molecular techniques. *Prerequisite:* BIO 250.

(BUS) BUSINESS AND MARKETING

BUS-100 Service Learning in Business

1-1-0

Students will broaden their educational experiences by being actively involved in one or more of the following student organizations: Enactus and International Association of Administrative Professionals (IAAP). In addition to meeting once a week as a class, students will also be required to attend the regularly scheduled meetings of their student organization. A student may enroll in this course one or more semesters and receive one credit hour for each semester enrolled up to a maximum of four semester credit hours.

BUS-101 Microcomputer Keyboarding

1-0-2

This course is designed to help students master the touch method and proper techniques for accurate use of the microcomputer and numeric keypad. Formatting of basic business documents will be provided. These skills will be valuable for all students, business persons and home-computer users.

BUS-105 Business English

3-3-0

This course will provide a review of parts of speech and their routine functions: plurals and possessives; antecedents; verb tense; transitive and intransitive verbs; active and passive voice; subject-verb agreement; comparative and superlative forms of adjectives and adverbs; prepositional phrases; coordinate, correlative and subordinate conjunctions. Also included will be a review of the mechanical aspects of business communication: punctuation, abbreviations, capitalization, number expression rules, appropriate word choice, sentence construction, parallelism and editing and proofreading documents.

BUS-110 Principles of Business

3-3-0

This course provides a survey of business in the United States and also global considerations, including its background, functions, objectives, ethics and opportunities for careers. Various aspects of business will be covered: marketing, management, human resources, production, accounting, finance, administrative services, technology, computerization of the workplace, regulations, international trade and the impact of e-commerce on businesses around the globe.

BUS-111 Principles of Insurance

3-3-0

This course is an introduction to insurance principles and risk management for both personal and professional applications. Topics covered include: property insurance, casualty insurance, life insurance, and health insurance. *Prerequisite:* BUS 110.

BUS-112 Document Processing

3-2-2

This course includes use of word processing software on a microcomputer. Students will learn to perform word processing functions for creating business documents. *Prerequisite:* BUS 101.

BUS-115 Personal Finance

3-3-0

The course is a survey of personal financial planning. Topics covered include: personal budgeting, investments, insurance, credit, housing and retirement planning. The goals are for students to learn the fundamentals of financial planning so they can make informed choices related to spending, saving, borrowing and investing that lead to long-term financial security.

BUS-120 Retailing 3-3-0

This course provides an introduction to retail businesses, operations, retailing concepts and practices, problem-solving for effective retailing, the similarities and differences between traditional and e-commerce retailing, the use of technology and information systems and careers in retailing. *Prerequisite: BUS 110.*

BUS-125 Selling 3-3-0

This course will introduce students to the principles and methods of effective selling, steps of the sales process, customer analysis, sales-supporting skills, and careers in sales. *Prerequisite: BUS 110.*

BUS-130 Principles of Marketing 3-3-0

This course deals with the structure of the marketing system, considering the four elements of marketing: product, price, place and promotion. Students will explore marketing as a business activity directed at satisfying the needs and wants of potential customers through the exchange process. Students will also be introduced to e-business technology and distribution systems. *Prerequisite: BUS 110.*

BUS-135 Integrated Business Applications 3-2-2

This course is a study of computerized applications such as word processing, database management, spreadsheets, graphics and multimedia presentations. Emphasis is on business and education decision-making using simple and integrated applications. *Prerequisite: CIS 101, BUS 112 or equivalent or concurrent enrollment.*

BUS-140 Business Communications 3-3-0

This course will help students develop business communication skills by composing and writing letters, memos, reports and electronic mail messages. The students will develop a writing portfolio of business documents and prepare and present oral reports. In their preparation of business communications, the students will have opportunities to use word processing software, to use computer skills in searching the Internet and sending e-mail messages and to learn useful communication practices for a career in business. *Prerequisite: ENG 101 or concurrent enrollment.*

BUS-145 Principles of Advertising 3-2-2

This course is an introduction to advertising principles, strategies, the importance of integrated marketing communication and how it impacts advertising, marketing research, media planning, budgeting, and buying, creative design for effective advertisements for print, electronic, and digital media, and careers in advertising. *Prerequisites: BUS 110 and BUS 130.*

BUS-150 Principles of Management 3-3-0

This course examines various techniques and theories of management and their effects on current practices. Students will study management functions, relating them to organizational structures. Discussions cover the basic elements of management: planning, organizing, leading and controlling and how the manager relates to personnel issues and organizational change and conflict. Consideration is given to the changing business environment where diversity of personnel, geographic dispersion of work locations, e-commerce and global activities will dominate the work place. *Prerequisite: BUS 110.*

BUS-155 Customer Service 2-2-0

Emphasis will be on developing customer support, practicing good work ethics in handling customer complaints and dealing with upset customers, accepting diversity in the workforce, demonstrating professionalism through better attitudes and teamwork involvement and developing the social skills needed to sustain customer relationships. Internal-customer and external-customer communication skills will be taught through proper phone use and creating and distributing coherent and consistent messages with emphasis on working together to meet customers' needs. Skills needed to negotiate conflicts will be taught through problem solving/critical thinking case studies and exercises, as well as planning and goal setting to build positive work environments and promote internal cooperation and communication.

BUS-160 Business Law 3-3-0

An introduction and study of the legal regulations governing business and e-business conduct will be provided in this course. Students will be introduced to laws that affect public and international environments which include contracts, sales and leases, torts and strict liability, product liability, cyberlaw and e-commerce, creditor-debtor relations, sole proprietorships, partnerships, corporations and limited liability companies, as well as laws governing agency and employment, the regulatory environment of consumer protection, environmental law, land-use control, and antitrust/monopoly law. *Prerequisite: BUS 110.*

BUS

Credit Hours-Lecture-Lab

X=Variable

BUS-165 Administrative Procedures 3-3-0

This course covers principles and procedures for completing basic office essentials including meeting documents, scheduling, making travel arrangements, editing and proofing business documents, mail handling, and proper techniques for the management of records. *Prerequisites: BUS 101 and BUS 112 or concurrent enrollment of BUS 112.*

BUS-170 Human Resources Management 3-3-0

This course provides an introduction to human resource management and its impact on the success of the business. Topics include the strategic planning process, human resource planning, equal employment opportunity, selection, training and development, performance appraisal, compensation, safety and health, and employee and labor relations. The role of managers in dealing with human resources is emphasized. *Prerequisite: BUS 150.*

BUS-185 Professional Development 1-1-0

This course is designed to develop common workplace behaviors in relation to professional image, business etiquette and protocol, interpersonal skills and supervision-leadership in organizations. The curriculum has been arranged in modular fashion to teach cross-functional skills that involve leadership, teamwork, problem solving, stress management and analytical thinking within the workplace environment as well as job-seeking skills.

BUS-200 Leadership 3-3-0

This course involves examination of all aspects of leadership, including the foundations of individual and group behavior, supervision, motivating and rewarding employees, interpersonal skills and communication in a group environment, and an understanding of the work team and the dynamics of such a group. *Prerequisite: BUS 150.*

BUS-212 Principles of Project Management 3-3-0

This course introduces students to project management principles and strategies commonly used in project management situations in various industries. Students will apply globally accepted concepts and methods from the Project Management Body of Knowledge (PMBOK) to a project from conception to closure. Highlighting key management techniques and business models, this course will guide students through the organization, integration, scope, scheduling, cost, quality control, human resources, communications, risk management and contingency planning involved in project management. Other topics will include the project manager, the project team and the project life cycle. Standard project management software will be used to plan and control a project. *Prerequisites: BUS 110, CIS 101.*

BUS-245 Entrepreneurship 3-3-0

This course will enable the student to recognize characteristics of a successful entrepreneur, and identify entrepreneurial opportunities and challenges. Students will assess the strengths and weaknesses of a business concept; collect, analyze, and organize market research data into a marketing plan; and prepare financial projections for a business concept. Students will write a formal business plan. They will identify legal issues related to entrepreneurship, and identify sources of capital. Students will examine strategies for growth, success and risks associated with entrepreneurship. *Prerequisite: BUS 110.*

BUS-255 Desktop Publishing 3-3-0

Instruction includes introduction to desktop publishing terms and concepts and the step-by-step procedures to implement the concepts. *Prerequisite: BUS 101.*

BUS-260 Business Strategy 3-3-0

Students will analyze and evaluate business models and concepts. In the process of doing so, students will assess the strengths and weaknesses of a business concept; collect, analyze and organize market research data into a marketing plan; and prepare the financial projections for a business concept. As the capstone course for the Business and Marketing program, this course will refresh and enhance the students' strengths introduced in required program-specific business courses. *Prerequisites: BUS 110 and BUS 130; Pre or co-requisites: BUS 140 and BUS 150.*

BUS-265 Certification Review and Skillbuilding 2-1-2

This capstone course is to be taken during the last semester of a student's associate's degree. Students work independently with minimal instructor supervision to review and reinforce competencies learned in previous BUS courses. This course helps prepare students for administrative professionals' certifications and exams, such as the Office Proficiencies and Competencies (OPAC) tests and the Microsoft Certified Application

BUS–CAC–CHM

Credit Hours-Lecture-Lab

X=Variable

Specialist (MCAS). Students also continue to develop and improve their keyboarding skills. *Prerequisites: BUS 101, BUS 105, BUS 112, BUS 116, BUS 135, BUS 155, BUS 165, BUS 185, ACC 120.*

BUS-275 Office Simulations 3-2-2

This course incorporates project-based business and office applications that reinforce the full range of knowledge, skills and techniques learned in previous courses throughout the Business Technology program. These projects will include assignments involving the planning and preparation of documents from different areas within the workforce. *Prerequisite: BUS 101, BUS 112, BUS 135, BUS 165, BUS 185.*

BUS-290 Co-Operative Ed/Internship/Elective Variable 1-3

This course involves supervised work experience in the major field which provides the student with the opportunity to make practical application of the knowledge and skills attained. An individualized instructional management plan will determine goals to be accomplished. Seminars may also be required. *Prerequisites: Completion of 30 credit hours and 2.0 GPA or advisor's approval. Please see the department chair of the specific program area for application.*

(CAC) COLLEGE & CAREERS**CAC-101 College and Careers: Making Connections 1-1-0**

This interactive and experiential course equips participants with tools and resources for life-long academic, career and employment success.

CAC-120 Keys to College Success 3-3-0

This course is designed to help students create greater success in college and in life. Students will learn strategies to set and achieve their academic, professional and personal goals. With a focus on the empowerment of wise choices, students will explore possible barriers to success and experience greater self-awareness, self-management, creative and critical thinking skills, emotional intelligence and lifelong learning skills.

(CHM) CHEMISTRY**CHM-101 Introductory Chemistry 4-3-2**

This is an introductory course designed to study basic chemical principles. Topics include atomic structure, measurement, bonding, properties of gases, acids and bases, solutions, organic nomenclature, functional groups, carbohydrates, lipids, proteins, and nucleic acids. Laboratory activities give students the opportunity to demonstrate chemical principles presented in lecture. *Prerequisite: Grade of "NB" or better in MTH 050 or equivalent score on the placement assessment for entry into MTH 110.*

CHM-160 General Chemistry I 4-4-0

This course is a study of the fundamental laws and theories of chemical structures and reactions. Topics include: atomic theory, stoichiometry, aqueous reactions, properties of gases, liquids, and solids, periodicity, bonding, thermodynamics, and properties of solutions. This course is recommended for all those majoring in Science as well as Chemistry majors and minors. *Prerequisite: Grade of "C" or better in MTH 110 or equivalent score on the Math Placement Assessment.*

CHM-161 General Chemistry I Lab 1-0-2

The lab emphasizes proper laboratory technique, synthesis, physical studies, qualitative and quantitative analysis, and data manipulation and statistical analysis. This course is recommended for all those majoring in Science as well as Chemistry majors and minors. *Prerequisite: Grade of "C" or better in MTH 110 or equivalent score on the Math Placement Assessment.*

CHM-170 General Chemistry II 4-4-0

This science majors course will include topics such as kinetics, chemical equilibrium, acid-base equilibrium, solubility equilibrium, complex ion formation, acid-base theory, thermodynamics, and electrochemistry. *Prerequisite: Grade of "C" or better in CHM 160.*

COURSE DESCRIPTIONS

CHM–CHN–CIS

Credit Hours-Lecture-Lab

X=Variable

CHM-171 General Chemistry II Lab 1-0-2

This science majors course will include topics such as kinetics, chemical equilibrium, acid-base equilibrium, solubility equilibrium, complex ion formation, acid-base theory, thermodynamics, and electrochemistry. *Prerequisite: Grade of "C" or better in CHM 160.*

CHM-200 Survey of Organic Chemistry 5-4-3

The course is a study of the principles of organic chemistry and biochemistry. At the conclusion of this course, students will demonstrate an understanding of organic nomenclature, molecular structure and bonding, physical and chemical characteristics of organic functional groups, organic reactions and mechanistic principles, organic lab techniques and safety, and elementary biochemistry. *Prerequisite: Grade of "C" or better in CHM 101 or CHM 160 and 161.*

CHM-225 Environmental Chemistry 3-2-2

Students in this course study the sources, reactions, transport and fate of chemical entities in the air, water and soil environment as well as their effects on human health. Topics of interest include: environmental chemistry of water pollution, water treatment, geochemistry, atmospheric chemistry, air pollution, hazardous materials, resources. The lab component consists of field activities, experiments and demonstrations to reinforce the concepts and ideas presented in lecture. *Prerequisite: Grade of "C" or better in CHM 101 or CHM 160 and 161.*

CHM-242 Organic Chemistry I 5-4-3

A lecture/lab course that studies the chemistry of carbon compounds from a functional group perspective. Emphasis is placed on reaction mechanisms and synthetic application in lecture while analytical and synthetic techniques will be emphasized in lab. *Prerequisite: Grade of "C" or better in CHM 170 and 171.*

CHM-243 Organic Chemistry II 5-4-3

This course will further develop knowledge of organic chemistry with a greater emphasis on functional group reactivity, mechanisms, and multistep synthetic sequences. The topics include: aromatic compounds, including phenols and aryl halides as well as a thorough discussion of delocalized chemical bonding; aldehydes and ketones; amines; carboxylic acids and their derivatives. There will be enhanced requirements for naming compounds, elucidating structures via spectroscopy and actual synthesis in the lab. *Prerequisite: Grade of "C" or better in CHM 242*

CHM-250 Introduction to Analytical Chemistry 5-3-4

The lectures in this course present the theory of analysis performed in the laboratory. Laboratory includes gravimetric analysis, volumetric analysis, chromatography, colorimetry, spectroscopy, complexometric and ion-exchange analysis as they apply to chemical analysis. This course is heavily weighted on the laboratory skills of the student. *Prerequisite: Grade of "C" or better in CHM 170 and 171.*

(CHN) CHINESE

CHN-101 Beginning Chinese I 3-3-0

This is an introductory course in Mandarin Chinese (Putonghua) designed for students who have little or no prior exposure to Chinese language. The emphasis of this course is on the four basic language skills: listening, speaking, reading, and writing using both Pinyin phonetic system and simplified Chinese characters. The course will focus on correct pronunciation, accurate tones, and grammatical structures. Content appropriate Chinese social and cultural background and history will be presented in order to promote an understanding of Chinese language and its culture.

(CIS) COMPUTER INFORMATION SCIENCE

CIS-100 Basic Computer Literacy 3-2-2

This is a hands-on course designed for the beginner or new user who wants to learn the essentials of how to use a personal computer. Course topics include: an introduction to computer hardware, keyboarding, purchasing and maintaining a computer, computer security and the Internet, online learning environments, file management, search engines, and e-mail. You will also be introduced to word processing, spreadsheet, and presentation software.

CIS-101 Personal Computer Applications**3-3-0**

This is a hands-on class learning to use the most common microcomputer software programs and information resource facilities. This course provides a look at the structure and components of microcomputers, their operating systems and an introduction to various applications with emphasis on word processing, database management, spreadsheet applications, presentation software and Internet usage. *Prerequisite: Keyboarding skill of 25 WPM or BUS 101 or CIS 100 recommended.*

CIS-105 Spreadsheet Applications**3-3-0**

This course provides a hands-on use of electronic spreadsheets. Students will design, test and debug spreadsheet applications. Spreadsheet formulas, functions and formatting will be utilized. Students will enter, modify, sort and extract data, print graphs and develop macros. *Prerequisite: CIS 101.*

CIS-112 Database Applications**3-3-0**

This course provides hands-on use of database application software with the design and implementation of database files. Students will design and implement database files. Students will create tables, enter and modify data and create forms, queries and reports for multiple table relational database files. *Prerequisite: CIS 101.*

CIS-115 Principles of E-Business**3-3-0**

This is an introduction to the key business and technology elements of Electronic Commerce. The course will introduce students to the theory and practice of conducting business over the Internet. The material is designed to be useful for the student planning to study the development of Internet applications and the student planning to go into general business where knowledge of Electronic Commerce is becoming mandatory for success. *Prerequisite: Keyboarding skill of 25 wpm recommended.*

CIS-120 Problem Solving and Programming Concepts**3-2-2**

This course is an introduction to the field of information technology with an emphasis in problem solving, structured program design and beginning programming techniques for those seeking a career in this industry. An overview of computer concepts, ethics and responsibilities and career options are also provided. *Prerequisites: Grade of "NB" or better in MTH 050 or equivalent score on the placement assessment for entry into MTH 110 and keyboarding skill of 25 wpm recommended.*

CIS-125 Introduction to Computer Game Development**3-2-2**

This course provides an introduction to computer game development for those seeking a career in this industry. Technologies commonly employed in developing interactive software will be examined, including software, hardware and middleware such as class libraries and engines. Game design modes and genres will be explored, as well as other applications and markets for this medium. Issues surrounding the computer game business will be explored, including personnel, philosophical and production issues, ethical concerns and influences of games and other interactive media on society.

CIS-130 Web Site Development I**3-2-2**

Note: Course only offered in the spring semester. This course entails development of web sites using modern technologies. Students will learn to develop web sites using the latest HTML standards including elements such as, links, tables, forms, style sheets and graphics. Students will also learn to employ cascading style sheets (CSS) and to separate content from presentation. *Prerequisite: CIS 101 and CIS 115.*

CIS-131 Web Site Development II**3-2-2**

Note: Course only offered in the fall semester. This course covers the advanced features of Web Design, which enhance the functionality of Web pages. Subjects explored include advanced HTML, interactivity of Web pages using forms, Java, AJAX, JavaScript, designing Web pages using Dynamic HTML (DHTML) and cascading style sheets (CSS). Students will build and maintain an online database with a scripting language. *Prerequisites: Grade of "C" or better in CIS 120 and a grade of "C" or better in CIS 130.*

CIS-139 Introduction to Web Server Management**1-1-0**

Note: Course only offered in the spring semester. This course covers the topics of managing a web server and gives students the skills needed to administer their own server. Subjects explored will be security, speed, configuration, management and scalability for growth. Students will get hands-on experience in different server environments and will be introduced to a variety of tools and techniques that can assist with administration. *Prerequisite: CIS 120.*

CIS

Credit Hours-Lecture-Lab

X=Variable

CIS-140 C++ Programming I 3-2-2

This course is an introduction to scientific and engineering computer programming using C++. Topics included are control structures, data types, functions, classes, pointers and software development tools. *Prerequisite: Grade of "C" or better in CIS 120 or MTH 130.*

CIS-150 C# Programming I 3-2-2

Note: Course only offered in the spring semester. This course is an introduction to structured, event-driven and object-oriented programming using the C# language. Students will learn to design programs that solve common business problems using good programming style appropriate in a team environment. Students will also learn to use a variety of visual components to create effective user interfaces targeting the Windows operating system. *Prerequisite: Grade of "C" or better in CIS 120.*

CIS-151 C# Programming II 3-2-2

Note: Course only offered in the fall semester. This course is a continuation of CIS 150 (C# Programming I). After a quick review, the student is introduced to advanced programming concepts such as data abstraction, classes, maintaining relational data, the use of additional visual components and other techniques commonly employed in advanced, commercial, multi-tiered applications. Other topics such as programming for the Internet, targeting handheld devices, and using graphics to enhance an application's visual appeal may also be explored. *Prerequisite: Grade of "C" or better in CIS 150.*

CIS-170 Java Programming I 3-2-2

Note: Course only offered in the fall semester. This course is an introduction to object oriented programming using Java. Topics covered are: control structures, classes, objects, encapsulation, polymorphism, run-time type identification, messages, methods, applets and arrays. *Prerequisites: Grade of "C" or better in CIS 120.*

CIS-171 Java Programming II 3-2-2

Note: Course only offered in the spring semester. This course is a continuation of CIS 170 (Java Programming I). After a review, the student is introduced to intermediate programming concepts essential for students seeking a career in software development. Topics include: graphical user interface (GUI) components, lists, queues, trees, other data structures and the Collections API. *Prerequisites: Grade of "C" or better in CIS 170.*

CIS-220 Game Development 3-2-2

This course provides students the opportunity to demonstrate mastery of advanced skills, including mathematics, algorithms, object-oriented programming, software design patterns and graphics as students develop features common to modern computer games. Various technologies and platforms are explored, giving students exposure to what it takes to develop computer games. *Prerequisites: Grade of "C" or better in CIS 125 and a grade of "C" or better in either CIS 150 or CIS 170.*

CIS-222 Robotics Programming 3-2-2

This course emphasizes advanced programming concepts and techniques used in developing programs used to control robots and robotic systems. Advanced .Net topics will be covered, as well as the APIs needed to work with the robotic systems. Other topics include artificial intelligence, motion planning, and sensors. *Prerequisite: Grade of "C" or better in CIS 140, CIS 150, CIS 170.*

CIS-230 Systems Analysis and Design 3-2-2

Note: Course only offered in the spring semester. In this course, students will use systems design and database to provide enterprise-wide business, organizational and managerial solutions. *Prerequisite: Grade of "C" or better in CIS 140, CIS 150, and CIS 170 or concurrent enrollment.*

CIS-235 Web Development III 3-2-2

Note: Course only offered in the spring semester. This course provides the concepts and skills necessary to design and develop Web-based enterprise-level applications and focuses on existing and emerging Web development technologies. Topics include specialized Web markup languages, server-side backend databases, server-side programming, web services, enterprise Web development and Web applications. *Prerequisites: Grade of "C" or better in CIS 150.*

CIS–COM

Credit Hours-Lecture-Lab

X=Variable

CIS-250 Database and Query 3-2-2

Note: Course only offered in the fall semester. This is an introductory course that provides database theory with an emphasis on relational database management. Hands-on Structured Query Language (SQL) database programming is included. The course also covers design, normalization, implementation and query of a relational database and uses an enterprise level database management system. *Prerequisites: Grade of "C" or better in CIS 140, CIS 150, CIS 170.*

CIS-260 Software Engineering Project 3-2-2

Note: Course only offered in the spring semester. This course is intended to develop the student's programming knowledge and skills in an applied environment. Students will work as individuals and in teams to implement a real-world equivalent system, perhaps converting legacy code to current technology standards or designing a new product from scratch. Students will develop designs, generate test procedures, and build a multi-tiered, client-server application capable of being utilized from a variety of platforms. Students will also learn project management and scheduling skills and that will be used to manage project phases and keep teams on task. Students must earn a grade of C or better in this course to meet graduation requirements. *Prerequisites: Grade of "C" or better in CIS 250 and a grade of "C" or better in either CIS 151 or CIS 171.*

CIS-290 Co-Operative Ed/Intern/Related Elective 3-3-0

This course provides supervised work experience in the major field, which provides the opportunity to make practical application of the knowledge and skills attained. An individualized instructional management plan will determine goals to be accomplished. Seminars may also be required. Please see the department chair of specific program area for application. *Prerequisites: Completion of 30 credit hours and 2.0 GPA or advisor's approval.*

(COM) COMMUNICATION**COM-100 Intro to Communication 3-3-0**

This course provides an introduction to the study of communication, including interpersonal communication, small group dynamics, and public speaking.

COM-105 Public Speaking 3-3-0

This is an introductory course in research, composition, delivery, and evaluation of speeches for a variety of purposes and occasions. Students develop skills in critical listening and analysis through small group and individual activities.

COM-125 Introduction to Debate 3-3-0

This is an introductory course in the basics of debate. The components of research, reasoning and argumentation are studied and put into practical debate situations. *Prerequisite: Grade of "C" or better in COM 105.*

COM-150 Introduction to Mass Communication 3-3-0

The media are everywhere, and they affect almost every aspect of our lives, including our knowledge of the world around us: the decisions we make as consumers and the values we embrace. Print and electronic media are covered in this course. *Prerequisite: COM 100 or COM 105.*

COM-200 Interpersonal Communication 3-3-0

This course is designed as an introduction to the theory and practice of interpersonal communication. Students learn how to become both effective and appropriate communicators in a variety of contexts. Students also develop good listening and responding skills, conflict management strategies, sensitivity to language and an understanding of cultural and gender differences. *Prerequisites: Grade of "C" or better in ENG 101 and a grade of "C" or better in COM 100 or COM 105.*

COM-225 Organizational Communication 3-3-0

This course provides an in-depth study and application of effective communication practices within the workplace or any other organization. Students learn to improve infrastructural communication, while developing the skills required to lead, manage, and maintain positive and effective information flow within organizations. *Prerequisite: COM 100 or COM 105.*

COM–CRM–CST

Credit Hours-Lecture-Lab

X=Variable

COM-290 Co-Operative Ed/Intern/Related Elective

Variable 1-3

This course provides supervised work experience in the major discipline, providing the student with the opportunity to make practical application of the skills and knowledge attained. An individual application and instructional management plan will determine goals. *Prerequisites: Completion of 30 credit hours or more and permission of department chair.*

(CRM) CRIMINOLOGY

CRM-210 Introduction to Criminal Justice

3-3-0

This is an introductory course in the philosophical and historical background of the American criminal justice system and its primary components: law enforcement, courts, and corrections. Students examine the origins of crime and the organization, purpose, and functions of law enforcement and other agencies involved in the administration of criminal justice.

CRM-215 Juvenile Justice

3-3-0

This course provides an overview of the extent, causes, nature and control of juvenile delinquency in the United States. The juvenile justice system is examined from both a historical and a contemporary perspective, as well as the causes of juvenile crime, the difference between juvenile and adult systems, delinquent acts, juvenile treatment as adults, and the role and function of probation, youth corrections, family services, and the community.

CRM-220 Criminal Procedure

3-3-0

This is an introductory course in criminal procedure which provides a basic understanding of the rules under which criminal justice professionals must operate when dealing with citizens in the criminal justice field. The Bill of Rights and its application to the accused and convicted are explored thoroughly through the study of case law and federal regulations. This course is designed for students planning to pursue careers in all areas of criminal justice.

CRM-230 Introduction to Criminology

3-3-0

This course provides an overview of criminological theories in order to classify and analyze different crime trends and patterns. Topics include the nature of criminology, criminological methods, crime causation, and the characteristics of types of crimes and offenders.

CRM-250 Policing in America

3-3-0

This course focuses on the structure, role and function of policing within the community and the American Society. Types of policing and police-community relations are explored. Students focus on developing communication skills, working with special populations, conflict management, utilizing technology and the importance of professionalism as a criminal justice practitioner.

CRM-260 Criminal Law and the Courts

3-3-0

This course examines the nature and development of criminal law along with the principles, processes, and structures found in adult criminal courts. Courtroom participants and their roles as well as contemporary criminological issues involving the courts are also examined.

CRM-270 Institutional and Community Based Corrections

3-3-0

This course presents an overview of justice and corrections. The course will explore the rationale and effectiveness of punishment, deterrence, restorative justice and corrections as well as the history and evolution of incarceration and community-based sanctions in America.

(CST) CONSTRUCTION TECHNOLOGY

CST-105 Introduction to Construction Technology

4-2-4

This course provides students skills necessary for achieving success within the construction industry. Topics of study includes: Basic safety, construction math, introduction to hand tools, introduction to power tools, basic rigging, and communication and employability skills. This course is the gateway course into the Construction Technology program. *Prerequisites: CST 105 must be taken concurrently with another CST course.*

CST-115 Printreading for Construction 4-2-4

Students will learn to read, understand, interpret and apply information from a construction blueprint. A study of construction materials and practices as applied to the reading of blueprints, as well as a study of technical sketching, is included. This course is geared around the reading and interpretation of residential blueprints with transference to commercial construction.

CST-135 Construction Carpentry I 4-2-4

Note: Course only offered in the fall semester. This course introduces students to carpentry skills necessary to frame residential floor, wall, and ceiling components. *Prerequisites: Grade of "C" or better in CST 105 or concurrent enrollment.*

CST-140 Cabinetmaking and Millwork I 4-2-4

This course provides a study of materials, tools, and equipment, processes, and joinery as an introduction to the woodworking/cabinetmaking industry. Lab exercises include safe equipment/tool use, joinery techniques and a woodworking project. *Prerequisites: Grade of "C" or better in CST 105 or concurrent enrollment.*

CST-150 Concrete and Forms 4-2-4

This course is designed to provide background and related information about concrete and forms including setting and leveling. Extensive use of form layout, form cutting, form construction and form erecting will be required. *Prerequisites: Grade of "C" or better in CST 105 or concurrent enrollment.*

CST-170 Masonry I 4-2-4

This course provides a study of masonry units and shapes and masonry tools, terminology, and equipment. Blueprint reading and estimating materials and labor will be covered. Techniques for laying of walls, floors and leads will be practiced in lab.

CST-210 Interior Finishes 4-2-4

This course is designed to provide background and related information about a variety of commercial interior applications related to the field of commercial carpentry. Topics include; drywall, suspended ceilings, metal studs, patented wall coverings, cabinet and fixture installation, metal door installation and other commercial hardware. Extensive laboratory experiences provide the student with practical applications associated with the topics. *Prerequisites: Grade of "C" or better in CST 105 or concurrent enrollment.*

CST-235 Construction Carpentry II 4-2-4

This course is designed to provide technical information, math skills and practical experience necessary to layout, cut and construct roof rafters including common, hip and valley rafters. Straight and landing stairs are also included. *Prerequisite: CST 135.*

CST-239 Construction Trim Carpentry 4-2-4

This course provides a wide variety of projects and technical information that will provide students knowledge and experience in installing interior trim, doors, and hardware.

CST-240 Cabinetmaking and Millwork II 4-2-4

This course provides a study of materials, tools and equipment, processes, joinery, face frame/frameless design, counter tops and production techniques as applied to the cabinet industry. Lab exercises include joinery techniques and cabinet construction. *Prerequisite: CST 140.*

CST-245 Green Construction Practices 3-2-2

The purpose of this course is to give students an understanding into the meaning of green construction. The course enables them to identify the vocabulary used in the green movement, with an emphasis in design practices, sustainable building materials, green building techniques, energy efficient best practices, sighting and orientation, water and energy systems, landscapes and the natural resources available. The course is designed for those interested in sustainable building practices, and/or those who recognize the importance of sustainable design practices in their daily lives.

CST-250 Exterior Finishes 4-2-4

This course is designed to provide background and related information about a variety of exterior finishes such as roofing components, wall coverings including wood siding, vinyl siding, EIFS, windows, doors, soffits, fascia and hardware. Extensive laboratory experiences provide the student with practical applications related to the subject. *Prerequisites: Grade of "C" or better in CST 105 or concurrent enrollment.*

CST–CUL

Credit Hours-Lecture-Lab

X=Variable

CST-265 Construction Technology Capstone 4-0-8

Note: Course only offered in the spring semester. This comprehensive course will be used to evaluate the student's knowledge and skills in CST using concepts and skills learned from previous CST courses. A Grade of "C" or better will be required to complete the CST degree program. *Prerequisites: CST 239, CST 140, CST 235, CST 260, CST 290 or concurrent enrollment in CST 290, and a minimum of 45 credit hours completed.*

CST-270 Masonry II 4-2-4

Through classroom and laboratory experiences, students will study leads, cavity, composite and reinforced block and brick walls and structures. Setting doors and window frames, floor tile, as well as types and use of scaffolding will be included. *Prerequisite: CST 170.*

CST-275 Masonry III 4-2-4

Emphasis will be placed on specialty masonry units such as fireplaces and chimneys, cornices, arches, quoins, tile and stone. In addition to classroom sessions, students will attain measurable skill levels in laboratory settings. *Prerequisite: CST 170.*

CST-280 Fundamentals of Crew Leadership 3-2-2

Today's leaders face a complex and challenging workforce, and having a capable leader is essential to the success of any team. This course introduces the trainee to the principles of leadership. Trainees will learn about: the construction industry today, business organizations, team building, gender and minority issues, communication, motivation problem solving, decision making, safety, and project control. *Prerequisite: Grade of "C" or better in CST 235.*

CST-281 Project Supervisor 3-2-2

Project Supervision is a comprehensive, competency-based program that gives both veteran and new field managers a step-by-step approach to honing their natural abilities, developing essential skills, and generally improving their performance as leaders. As a one-level curriculum, Project Supervision covers topics such as Human Relations and Problem Solving, Safety, and Quality Control.

CST-290 Co-Operative Education/Internship 3-0-0-9

This course provides a supervised work experience in the major field giving the student opportunity to make practical application of the knowledge and skills attained. An individualized instructional management plan will determine goals to be accomplished. Seminars may also be required. *Prerequisites: Completion of 30 credit hours and 2.0 GPA or advisor's approval. Please see the Department Chair of the specific program area for application.*

(CUL) CULINARY ARTS

CUL-100 Culinary Fundamentals 3-1-4

This course will provide the students with the knowledge of various safety and sanitation practices in the foodservice and hospitality industries. This course will also teach students basic skills in the kitchen as well as introducing them to the basics of cooking, baking and nutrition. This course will also offer the students a brief look at everything that goes into owning and operating a foodservice facility.

CUL-101 Introduction to Food Preparation and Theory 3-1-4

Students will learn classical and contemporary cooking techniques, preparation of nutritionally balanced meals and proper plate presentation. Students will gain an understanding of industry standards in safety and sanitation, standard recipes and measurements, operation of food service equipment and application of basic math skills in the determination of cost factors and menu pricing. The lab portion of the course will focus on the application of principles taught in lecture. This course will prepare students for entry level job skills and is a prerequisite for the next series of courses in the program. Please note: Students participating in lab courses should be prepared to stand for long periods of time on a hard surface and must be able to lift and carry up to 30 pounds. *Prerequisite: HSM 115 or concurrent enrollment.*

CUL-102 Meat, Seafood, and Poultry Identification and Fabrication 3-1-4

This course will expand on the cooking techniques learned in CUL 101 Introduction to Food Preparation through fabrication, identification and purchasing of proteins they will use in the industry. In this class, the student will have an opportunity to observe the fabrication of whole meats, seafood and poultry and apply it to cooking and plating techniques at a more advanced level. Please note: Students participating in lab courses

should be prepared to stand for long periods of time on a hard surface and must be able to lift and carry up to 30 pound. *Prerequisites: CUL 101, HSM 115.*

CUL-103 Garde Manger 3-1-4

Garde Manger is the art of the cold kitchen. A Garde Manger Chef is considered to be the "keeper of the food" or pantry supervisor, referring to the task of preparing and presenting cold foods. Students will learn to use products from all areas of the kitchen to make a modern menu profitable and sustainable. This course will develop skills in producing a variety of cold foods products including salads, hors d'oeuvres, cold soups and charcuterie; as well as creating decorative elements for buffet presentation. Please note: Students participating in lab courses should be prepared to stand for long periods of time on a hard surface and must be able to lift and carry up to 30 pounds. *Prerequisites: Grade of "C" or better in CUL 101 and HSM 115.*

CUL-105 Soups and Sauces 2-1-2

This course expands on the use of contemporary sauces and soups in the culinary industry. Students will learn new techniques in soups, sauces and gastriques taking classical sauces and making them modern using alternative starches, techniques and healthier thickeners. *Prerequisites: Grade of "C" or better in CUL 101 and HSM 115 or department chair approval.*

CUL-110 Exploring the Science of Flavor 2-1-2

This course allows students to explore alternative methods of food production using science as the catalyst. Students will learn how to apply these methods to the social, artistic and technical components in creating a culinary experience. Also known as molecular gastronomy or modern cuisine. Students will apply these scientific methods to food to create foams, spheres, airs and gels and will explore the use of these products for center of the plate presentations and/or garnishes. *Prerequisites: Grade of "C" or better in CUL 101 and HSM 115 or department chair approval.*

CUL-121 Introduction to Baking and Pastry 3-1-4

This course is an introduction of the student to the ingredients, procedures and processes of basic baking. Course includes concepts in formulas and the chemical reactions of basic doughs, cakes and batters. *Prerequisite: HSM 115 or concurrent enrollment, or Department Chair approval.*

CUL-130 European Pastries and Classical Desserts 3-1-4

This course involves the study and practice of the fine culinary arts European and classical dessert preparation as well as sugar and chocolate decorating techniques, including stenciling, piping, marzipan and pastillage. Please note: Students participating in lab courses should be prepared to stand for long periods of time on a hard surface and must be able to lift and carry up to 30 pounds. *Prerequisites: Grade of "C" or better in CUL 121, HSM 115.*

CUL-150 Quick Breads and Yeast Breads 3-1-4

This course is the study and practice of the culinary art of quick bread and yeast bread techniques, including biscuit, scones, muffins, miscellaneous quick breads, as well as basic yeast bread, artisan bread and sourdough bread production. *Prerequisites: Grade of "C" or better in CUL 121, HSM 115.*

CUL-160 Cakes Decorating Fundamentals 3-1-4

Cake decorating is one of the sugar arts that uses icing or frosting and other edible decorative elements to make cakes and showpieces. Decorated cakes are often a focal point of special celebrations including: birthdays, graduations, bridal showers, weddings and anniversary. This course will cover skills needed to produce decorated cakes for use in commercial operations as decorative centerpieces and for retail sales. Topics covered will include: various frosting and their application, use of borders and flowers as decorative elements, construction of multi-tiered cakes and pricing strategies based on product cost. *Prerequisites: Grade of "C" or better in CUL 121, HSM 115.*

CUL-170 Chocolate, Sugar, and Confections 3-1-4

This course introduces students to the art of working with chocolate and sugar. Topics include tempering, cutting shapes, transfer sheets, display pieces, candies and sugar doughs. Students will be exposed to the idea of sugar as an art with techniques in poured, pulled and spun sugar. *Prerequisite: Grade of "C" or better in CUL 121, HSM 115.*

CUL–DAS

Credit Hours-Lecture-Lab

X=Variable

CUL-180 Plated Dessert Presentation**2-1-2**

This class focuses on the elements of modern dessert composition. It stresses a complete understanding and creation of all components of plated dessert production, using the basic patisserie principles. This class will help prepare students by giving them the basic skills needed to compose and present desserts in a restaurant, club, hotel or resort setting. Students will gain knowledge of techniques and equipment needed to produce desserts, sauces and garnishes and to use these components to create finished plated desserts that are both delicious and visually striking. *Prerequisite: Grade of "C" or better in CUL 121, HSM 115.*

CUL-201 Contemporary Cuisine and Plate Presentation**8-3-10**

This course provides the advanced cul culinary arts student instruction and practice in the actual back of the house operation of a working restaurant. Students will research and design menus, determine purchasing needs for menu production, and prepare food to proper safety and sanitation standards utilizing accepted classical and contemporary techniques. Please note: Students participating in lab courses should be prepared to stand for long periods of time on a hard surface and must be able to lift and carry up to 30 pounds. *Prerequisites: Grade of "C" or better in CUL 101, CUL 102, CUL 103, CUL 121, HSM 115, HSM 125.*

CUL-203 World Cuisine**3-1-4**

This course exposes the student to different ethnic cuisines by linking the past and its people with the different regions from around the world. Study of the unique ingredients used in the traditional foods and preparations will be discussed and used in lab applications. Students will apply knowledge and techniques learned to present restaurant quality dishes from each cuisine using standardized recipes with a contemporary flair. Please note: Students participating in lab courses should be prepared to stand for long periods of time on a hard surface and must be able to lift and carry up to 30 pounds. *Prerequisites: Grade of "C" or better in CUL 101, CUL 102, CUL 103, HSM 115.*

CUL-290 Co-Operative Education/Internship**Variable 1-3**

This course entails a supervised work experience in the major field, which provides the opportunity to make practical application of the knowledge and skills attained. An individualized instructional management plan will determine goals to be accomplished. Seminars may also be required. Please see the Chair of the specific program area for application. *Prerequisites: Completion of 30 credit hours and 2.0 GPA and approval of department chair.*

(DAS) DENTAL ASSISTING—TRADITIONAL OR HYBRID TRACK**DAS-101 Chairside Assisting I****4-2-0-6**

This course focuses on the introduction to the business of dentistry, the ethics and law of dentistry, and the professionalism and duties of a chairside dental assistant. *Prerequisite: Admission to the Dental Assisting program.*

DAS-102 Infection Control**2-1-2**

This course introduces the infection and hazard control procedures necessary for the safe practice of dentistry. It will include an overview of microbiology, OSHA standards, chemical disinfecting and sterilizing techniques. *Prerequisite: Admission to the Dental Assisting program.*

DAS-103 Chairside Assisting II**3-3-0**

This course focuses on the continual studies of chairside dentistry that includes specialized area of dentistry. It will provide a level of knowledge and skill that will prepare the dental assistant for clinical dentistry. *Prerequisite: Grade of "C" or better in all of the previous Dental Assisting courses.*

DAS-105 Dental Language**1-1-0**

This course focuses on the student to properly communicate and relay treatment to the dental patient. Through role playing and community service the student will learn the importance of verbal and nonverbal communication skills. The student will prepare a resume for their future position in the career of dentistry. *Prerequisite: Grade of "C" or better in all of the previous Dental Assisting courses.*

DAS-114 Operative Dentistry**3-2-2**

This course introduces basic knowledge and skill application for general chairside assisting procedures. Emphasis is placed on the application and procedures of four-handed dentistry and clinical support functions. Upon completion, students should be able to utilize theory and clinical skills in a dental setting. *Prerequisite: Admission to the Dental Assisting program.*

DAS-DDT

Credit Hours-Lecture-Lab

X=Variable

DAS-115 Dental Science and Health 2-2-0

This course offers the following topics related to dental science and health: dentition, head and neck anatomy, tooth morphology, oral embryology and histology, nutrition, oral pathology, and pharmacology. *Prerequisite: Admission to the Dental Assisting program.*

DAS-120 Dental Materials I 4-3-2

This course provides a study of the science of dental materials, their composition, structures and properties; uses in dentistry, and manipulation techniques. Emphasis is on safety procedures during manipulations of materials and use of equipment. *Prerequisite: Admission to the Dental Assisting program.*

DAS-123 Dental Materials II Lab 4-3-2

This course focuses on the study of the Missouri Expanded Functions and the practice with, manipulation of, and evaluation of material used in the specialized areas of dentistry. *Prerequisite: Grade of "C" or better in all of the previous Dental Assisting courses.*

DAS-130 Dental Radiology I 3-2-2

This course is an introduction to radiographic procedures, theory of producing radiographs, biological effects and safety procedures; practice of techniques is mastered on typodonts before exposures are made on patients. Diagnostic quality with maximum radiation protection is of special emphasis. *Prerequisite: Admission to the Dental Assisting program.*

DAS-132 Dental Radiology II 2-1-2

This course provides continued instruction of radiographic procedures which builds upon concepts introduced in Dental Radiology I. *Prerequisite: Grade of "C" or better in all of the previous Dental Assisting courses.*

DAS-150 Dental Office Procedures 1-1-0

This course provides a study of principles and procedures related to management of the dental practice. Emphasis is placed on maintaining clinical and financial records, client scheduling, and supply and inventory control. Upon completion, students should be able to demonstrate fundamental skills in dental practice management. *Prerequisite: Grade of "C" or better in all of the previous Dental Assisting courses.*

DAS-191 Dental Clinic Practicum I 3-0-0-9

This clinical course enables the dental assistant student to apply basic chairside skills in dental offices prior to advancing to DAS 192. *Prerequisite: Grade of "C" or better in all of the previous Dental Assisting courses.*

DAS-192 Dental Clinic Practicum II 3-0-0-9

This clinical course enable the dental assistant student to apply advanced chairside skills in dental specialties offices: Endodontics, Prosthodontics, Oral Surgery, Orthodontics, and Pedodontics. *Prerequisite: Grade of "C" or better in all of the previous Dental Assisting courses.*

(DDT) DRAFTING AND DESIGN TECHNOLOGY**DDT-100 Fundamentals of Drafting 4-2-4**

Mechanical drafting is the graphic language used by engineers and technicians in high technical manufacturing environments. The basic drafting skills and knowledge necessary to communicate graphically are investigated through lecture and lab opportunities using a 2D computer aided drafting system (CAD).

DDT-110 Mechanical Dimensioning and Tolerancing 4-2-4

Students will learn to read, understand, interpret and apply information from the various types of blueprints, shop prints and schematics used in an electrical environment. This course includes instruction on the different types of standard symbols and abbreviations found on electrical construction drawings, schematics, and wiring diagrams. *Prerequisite: DDT 100 or concurrent enrollment.*

DDT-115 Manufacturing Processes and Materials 4-3-2

This lecture/lab course focuses on the study of mechanical, chemical, physical properties, and structure of engineering materials with heat treating of ferrous and nonferrous metals, and an investigation of the methods used to process these materials.

DDT–DHY

Credit Hours-Lecture-Lab

X=Variable

DDT-150 Descriptive Geometry and 2D CAD 4-2-4

Note: Course offered in the spring semester. Intermediate Computer-Aided Drafting (CAD) skills are developed for graphic solutions of design problems with regard to spatial relationships using descriptive geometry to produce auxiliary, revolution, intersection and development drawings. *Prerequisite: DDT 100.*

DDT-160 Residential Architectural Drafting 4-2-4

Note: Course offered in the spring semester. Residential architecture will give the student an understanding of the basic concepts of construction and residential design. Students will produce a set of floor plans for a house. This course is based on space relationships required for the family uses of the structure, and explores basic design concepts, both for function and aesthetics. *Prerequisite: DDT 100.*

DDT-200 Production Design Drafting 4-2-4

Note: Course offered in the fall semester. This lecture/lab course will provide students with the knowledge and skills in the use of current 3D computer aided design (CAD) systems with individual and group projects utilizing the design method, the engineering design cycle, and the access and application of standards and engineering data for the production of mechanical working drawings. *Prerequisite: Grade of "C" or better in DDT 110 or EGR 100 or concurrent enrollment.*

DDT-210 Structural Steel Detailing and Drafting 4-2-4

Note: Course offered in the fall semester. Computer-Aided Drafting and design proficiency is increased through the design and detailing of structural steel projects of buildings and bridges for heavy construction industries. *Prerequisite: DDT 100.*

DDT-250 Machine Design Drafting 4-2-4

Note: Course offered in the spring semester. This capstone course will simulate a real world mechanical design working environment, providing students with an opportunity to display acquired knowledge and skills. Students will apply the design method and produce working drawings that include detail, assembly, bill of material, specifications, and three dimensional (3D) models utilizing current 3D CAD solid-modeling software and 3D printer. *Prerequisite: DDT 200.*

DDT-260 Commercial Architectural Drafting 4-2-4

Note: Course offered in the spring semester. This course focuses on the study of the basics of architectural drafting on the (CAD) system, and how it applies to commercial buildings. Layout considerations and code requirements for commercial designs will be studied. *Prerequisite: DDT 100.*

DDT-270 Civil Engineering Drafting 4-2-4

Note: Course offered in the spring semester. This lecture/lab course introduces the drafting practices and standards utilized in civil engineering contract documents. A computer aided drafting (CAD) system is used in the production of topographic mapping, site plan, grading, and road drawings. *Prerequisite: DDT 100.*

DDT-290 Co-Operative Ed/Intern/Related Elective Variable 1-3

This course entails a supervised work experience in the major field which provides the student with the opportunity to make practical application of the knowledge and skills attained in coursework. An individualized instructional management plan will determine goals to be accomplished. Seminars may also be required. *Prerequisites: Completion of 30 credit hours and 2.0 GPA or advisor's approval. Please see the Department Chair of the specific program area for application.*

(DHY) DENTAL HYGIENE

DHY-100 Foundations of Dental Hygiene 2-2-0

This course is designed to prepare the dental hygiene student with the basic knowledge, theory, and skill concepts necessary to perform clinical skills required in subsequent clinical dental hygiene courses. Basic principles of extraoral and intraoral cancer screenings, periodontal examinations, assessment of plaque and calculus, instrument design and function, and fundamental instrumentation necessary to render safe and effective clinical hygiene treatment are taught. *Prerequisite: Admission to the Dental Hygiene program.*

DHY-101 Introduction to Dental Hygiene - Lab**3-0-6**

This course introduces the student to basic knowledge and skills necessary for the clinical application of dental hygiene services. Clinical labs will include demonstrations, synchronous DVD presentations and application which will involve typodonts, manikins and lab partner utilization. *Prerequisite: Admission to the Dental Hygiene program.*

DHY-105 Orofacial Anatomy**2-2-0**

This course is a detailed study of the morphology and functions of deciduous and permanent teeth, including the study of muscular and skeletal functions, the blood supply and nervous system in relationship to the oral cavity. *Prerequisite: Admission to the Dental Hygiene program.*

DHY-110 Oral Histology and Embryology**2-2-0**

This course will provide an understanding of how cells and tissues comprising the anatomical parts of the oral cavity develop and function. The course will also focus on the embryonic development of related facial and oral structures. *Prerequisite: Admission to the Dental Hygiene program.*

DHY-120 Dental Materials**3-2-2**

This course is a study of the science of dental materials, their composition, structures and properties; uses in dentistry and manipulation techniques. Emphasis is stressed on safety procedures during manipulations of materials and use of equipment. *Prerequisite: Grade of "C" or better in all of the previous Dental Hygiene courses.*

DHY-150 Dental Hygiene I**2-2-0**

This course is designed to further the student's knowledge of dental hygiene clinical development skills to include scaling instrumentation and specific patient management. *Prerequisite: Grade of "C" or better in all of the previous Dental Hygiene courses.*

DHY-152 Dental Hygiene I - Pre-Clinic Lab**2-1-2**

This course is designed to apply the foundations of dental hygiene care with comprehensive patient care in a pre-clinical setting. Pre-clinic labs will include demonstrations, synchronous DVD presentations and applications involving typodonts, manikins and lab partners. *Prerequisite: Grade of "C" or better in all of the previous Dental Hygiene courses.*

DHY-153 Dental Hygiene I Clinic**2-0-0-6**

This course is designed to apply the concepts of comprehensive patient care in a clinical setting. *Prerequisite: Grade of "C" or better in all of the previous Dental Hygiene courses.*

DHY-155 Pharmacology for the Dental Hygienist**2-2-0**

This course will provide general principles of pharmacology and use of pharmaceuticals with specific emphasis on those used in dentistry, including their physical and chemical properties, dosage and therapeutic effects. *Prerequisite: Grade of "C" or better in all of the previous Dental Hygiene courses.*

DHY-160 Introduction to Periodontology**2-2-0**

This course is the study of periodontal disease, etiologies, recognition of normal periodontium and deviations of normal, clinical assessment, treatment and prevention of disease progression. *Prerequisite: Grade of "C" or better in all of the previous Dental Hygiene courses.*

DHY-200 Dental Hygiene II—Pain Management**2-1-2**

This course is designed to further the student's knowledge of dental hygiene comprehensive patient care to include block/local anesthesia, nitrous oxide, pain management, and advanced techniques in nonsurgical periodontal therapy. *Prerequisite: Grade of "C" or better in all of the previous Dental Hygiene courses.*

DHY-201 Dental Hygiene II—Clinic**2-0-0-6**

This course is designed to apply the concepts of comprehensive patient care in a clinical setting with emphasis on administration of local anesthesia, pain management, and advanced techniques in nonsurgical periodontal therapy. *Prerequisite: Grade of "C" or better in all of the previous Dental Hygiene courses.*

COURSE DESCRIPTIONS

DHY - DSL

Credit Hours-Lecture-Lab
X=Variable

DHY-205 Dental Hygiene III 2-2-0

This course is designed to provide instruction in treatment planning, risk factors, and care of patients with special needs in the dental hygiene process of care. *Prerequisite: Grade of "C" or better in all of the previous Dental Hygiene courses.*

DHY-206 Dental Hygiene III - Clinic 5-0-0-15

This course is designed to apply the concepts of comprehensive patient care in a clinical setting using advanced instrumentation and fulcruming. Emphasis will be placed on clinical treatment of patients with special needs and dental hygiene process of care. *Prerequisite: Grade of "C" or better in all of the previous Dental Hygiene courses.*

DHY-210 Oral Pathology 2-2-0

The course will include circulatory disturbances, inflammation and tumors. Also, the course will emphasize diseases affecting the oral cavity, dental caries, periodontal diseases, oral neoplasia and similar problems. *Prerequisite: Grade of "C" or better in all of the previous Dental Hygiene courses.*

DHY-215 Community Dental Health 2-2-0

This course provides a study of the principles and methods used in assessing, diagnosing, planning, implementing and evaluating community dental health programs. Attitudes and behaviors necessary to promote dental disease prevention through organized community-based programs will also be discussed. Upon completing this course, students should be able to assess, diagnose, plan, implement, and evaluate a community dental health program. *Prerequisite: Grade of "C" or better in all of the previous Dental Hygiene courses.*

DHY-250 Dental Hygiene IV 2-2-0

This course is the final course in the clinical Dental Hygiene sequence. It is designed to enable the student to incorporate all the techniques and treatment modalities previously acquired involving total patient care. Emphasis will be placed on review of dental hygiene courses, continuation of special needs patients and office management skills. Upon completion of the course, the student will be prepared to take national, regional and state board examinations. *Prerequisite: Grade of "C" or better in all of the previous Dental Hygiene courses.*

DHY-251 Dental Hygiene IV - Clinic 5-0-0-15

This course is designed for the application of knowledge of the comprehensive patient care process into a clinical setting. *Prerequisite: Grade of "C" or better in all of the previous Dental Hygiene courses.*

DHY-260 Legal Issues and Dental Ethics 1-1-0

This course is designed to provide the student with knowledge of ethics, jurisprudence and professionalism with applications to the practice of Dental Hygiene. Topics include state laws, legal liabilities as health care professionals, state laws, professional codes of ethics, writing a resume and interviewing techniques. Upon completion of the course, students should be able to demonstrate the ability to practice Dental Hygiene within established ethical guidelines and state laws. *Prerequisite: Grade of "C" or better in all of the previous Dental Hygiene courses.*

(DSL) DIESEL TECHNOLOGY

DSL-105 Diesel Engine Repair 4-2-4

Note: Course only offered in the fall semester. This course provides instruction in the operation and repair of diesel engines, including basic fuel systems, cooling systems, lubrication, air intake and controls related to the Automotive Service Excellence (ASE) area of Diesel Engine Repair. This program is ASE accredited by the National Automotive Technicians Educational Foundation (NATEF).

DSL-112 Diesel Brakes 4-2-4

Note: Course only offered in the spring semester. This course develops occupational competencies needed for the operation, repair, troubleshooting and diagnostics of diesel brakes.

Credit Hours-Lecture-Lab

X=Variable

DSL-115 Diesel Preventive Maintenance**4-2-4**

Note: Course only offered in the fall semester. This course develops occupational skills needed to provide preventative maintenance on diesel engines, trucks, and trailers related to the Automotive Service Excellence (ASE) requirements for diesel preventive maintenance. This program is ASE accredited by the National Automotive Technicians Educational Foundation (NATEF). The instruction will include classroom demonstration and laboratory exercises.

DSL-171 Electrical I**4-2-4**

Note: Course only offered in the fall semester. This course develops each student's occupational competencies needed to perform preventive maintenance and repair methods required of an entry level technician in the automotive and diesel fields. The instruction will include classroom demonstration and practical exercises related to the Automotive Service Excellence (ASE) area of Electrical Systems. This program is ASE accredited by the National Automotive Technicians Educational Foundation (NATEF).

DSL-175 Electrical II**4-2-4**

This course develops each student's competencies needed for the operation and repair of truck electrical systems. The instruction will include classroom demonstrations and practical exercises. *Prerequisite: DSL 171.*

DSL-185 Heating and Air Conditioning**4-2-4**

This course develops each student's occupational competencies needed to perform preventive maintenance and repair methods required of an entry level technician. The instruction will include classroom, demonstration and practical exercises related to the Automotive Service Excellence (ASE) area of Heating and Air Conditioning.

DSL-205 Advanced Diesel Engines**4-2-4**

Note: Course only offered in the spring semester. This course develops each student's occupational competencies needed to perform engine operation, diagnosis and repair. The instruction will include classroom demonstration and practical exercises related to the area of Advanced Diesel Engines.

DSL-215 Suspension and Steering**4-2-4**

Note: Course only offered in the spring semester. This course develops each student's occupational competencies needed for the operation and repair of suspension and steering systems on medium-heavy diesel vehicles. The instruction will include classroom demonstration and practical exercises related to the area of Suspension and Steering.

DSL-232 Diesel Diagnostics & Repair**4-2-4**

Note: Course only offered in the spring semester. This course develops each student's occupational competencies needed for the operation, repair, troubleshooting and diagnostics of diesel fuel and electronic systems, to include diesel electronic injection systems. The instruction will include classroom demonstration and practical exercises related to the area of Diesel Diagnostics and Repair. *Prerequisites: DSL 105, DSL 171 and DSL 205.*

DSL-235 Heavy Duty Drives**4-2-4**

Note: Course only offered in the spring semester. This course develops each student's occupational competencies needed for operation and repair of heavy duty drive systems. The instruction will include classroom demonstration and practical exercises related to the Automotive Service Excellence (ASE) area of Heavy Duty Drives.

DSL-290 Capstone/Co-op/Internship**3-0-0-9**

This course provides students the opportunity for supervised work experience in their major field with practical application of the knowledge and skills attained through coursework. Students will also apply critical thinking, analytical reading, decision making and valuing skills to issues across the diesel technology curriculum. An assessment will give students the opportunity to demonstrate their level of application and learning in the diesel technology program. An individualized instructional management plan will determine goals to be accomplished. Seminars may also be required. Please see the Chair of the specific program area for application. *Prerequisites: Completion of at least 30 credit hours in Diesel Technology courses and a minimum GPA of 2.0, or advisor's approval.*

ECD

Credit Hours-Lecture-Lab

X=Variable

(ECD) EARLY CHILDHOOD DEVELOPMENT**ECD-101 Introduction to Early Childhood 4-3-3**

This is an introductory lecture/laboratory course which offers prospective early childhood providers an overview of early childhood education, history, developmentally appropriate practice, professionalism, and philosophies of various programs. The laboratory component of this course requires students to obtain (at their own expense) a tuberculin (TB) skin test and a background screening from the Family Care Safety Registry (FCSR) within the first two weeks of class.

ECD-110 Early Childhood Growth and Development 4-3-3

This is a foundational lecture/laboratory course which provides a sequenced study of typical growth and development from infancy to 8 years of age. Emphasis is placed on the whole child principle and its importance in early childhood. The laboratory component of this course requires students to obtain (at their own expense) a tuberculin (TB) skin test and a background screening from the Family Care Safety Registry (FCSR) within the first two weeks of class.

ECD-115 Observation and Assessment of the Young Child 1-1-0

This elective course offers students an overview of various observational techniques and assessment methods utilized in early childhood. Emphasis is placed on components necessary for strong observation skills, how to choose the best instrument for specific situations and tools for assessing environments and developmental milestones.

ECD-120 Early Childhood Literature and Language 4-3-3

This is a foundational lecture/laboratory course which offers a practical study of children's literature in the early childhood classroom. The history, elements, and strategies for presenting literature experiences to young children will be explored as well as the four areas of language arts: speaking, listening, writing and reading. The laboratory component of this course requires students to obtain (at their own expense) a tuberculin (TB) skin test and a background screening from the Family Care Safety Registry (FCSR) within the first two weeks of class.

ECD-125 Challenging Behaviors in the Young Child 1-1-0

This elective course offers students an overview of challenging behaviors commonly seen in young children. Identification of problem behaviors and recognition of potential causes are examined with an emphasis on providing practical and appropriate response strategies.

ECD-165 Relationships in Early Childhood 4-3-3

This is a foundational lecture/laboratory course which focuses on young children's relationships from a sociological and ecological approach. The influences of society, family, schools, communities and relationships in the young years will be explored. The laboratory component of this course requires students to obtain (at their own expense) a tuberculin (TB) skin test and a background screening from the Family Care Safety Registry (FCSR) within the first two weeks of class.

ECD-170 Health, Safety and Nutrition in Early Childhood 4-3-2

A foundational lecture course focusing on basic factors that affect the health, nutrition and safety of the young child. Nutritional needs, feeding, health routines, safety, hygiene, and childhood illnesses will be examined as well as Missouri child care licensing requirements.

ECD-205 Historical and Philosophical Trends in Early Childhood 3-3-0

An elective course that examines historical and philosophical influences in the field of early childhood with an emphasis on major events and theorists having an impact on early childhood education. Students will explore historical figures and past issues in a current, contemporary perspective.

ECD-210 Zero to Three: The Early Years 3-3-0

This is an advanced lecture course which concentrates on the development of the young child from conception to three years of age. Emphasis is placed on prenatal development, responsive care giving, the importance of routines and developmentally appropriate expectations and activities.

ECD-215 Science and Math in Early Childhood 3-3-0

This is an elective course which emphasizes the development of an integrated math and science curriculum for young children in the early childhood setting. Appropriate content, processes, environment and materials and child-centered choices will be examined. Topics of special consideration are developing problem-solving skills in children and planning discovery experiences for the individual child.

Credit Hours-Lecture-Lab

X=Variable

ECD-225 Abuse and Neglect in Early Childhood 3-3-0

This is an advanced lecture course which provides an in-depth study on child maltreatment. Identification of signs and symptoms of child abuse and neglect will be studied. Emphasis is placed on the role of the early childhood professional as a mandated reporter and the prescribed policies and procedures required when reporting child abuse and neglect.

ECD-230 The Young Exceptional Child 3-3-0

This is an advanced lecture course which explores the different types of exceptionalities found in "atypical" young children. Topics include speech, language, hearing and visual impairments, gifted and talented, mental retardation, emotional, behavioral and neurological disorders. Federal and state legislation will also be examined as well as educational techniques.

ECD-235 Multicultural Perspectives in Early Childhood 1-1-0

This advanced elective course offers students an exploration of the concept of cultural diversity including ethnicity, social class, customs, heritage, gender roles, values and morals. Emphasis is placed on how multiple perspectives affect young children and how educators can provide an anti-bias environment.

ECD-240 Creativity and the Young Child 3-3-0

An elective course that introduces the concept of fostering creativity in preschool children and developing a creative attitude in teachers. Topics include selecting and developing creative experiences in music, art, movement and drama as well as developing self-expression and creativity in young children.

ECD-245 Leadership and Ethics in Early Childhood 1-1-0

This advanced elective course offers students an overview of collaborative and motivational leadership. It is designed to promote creative, innovative leadership among emerging leaders in the early childhood profession. Through interactive, team building experiences, students will explore various leadership roles and the National Association for the Education of Young Children (NAEYC) Code of Ethical Conduct and Standards.

ECD-260 Curriculum Development in Early Childhood 4-3-3

This is an advanced lecture/laboratory course which offers a practical study of the teacher's role in planning curriculum to support the development of young children birth to 8 years of age. Students develop and implement activity and lessons plans in the laboratory component of this course. Anti-bias perspectives and diversity in materials and teaching is also explored. The laboratory component of this course requires students to obtain (at their own expense) a tuberculin (TB) skin test and a background screening from the Family Care Safety Registry (FCSR) within the first two weeks of class. *Prerequisite: Grade of "C" or better in ECD 110.*

ECD-280 Administration of Early Childhood Programs 3-3-0

This is an elective course that examines the management and supervision of early childhood programs. Topics of special consideration include legal issues and regulations, administrative responsibilities, budget planning, record keeping, personnel policies, parent involvement and public relations.

ECD-290 Internship/Field Experiences in Early Childhood Variable 1-3

This elective course provides supervised work experience in the major field and the opportunity to make practical application of the knowledge and skills attained. An individualized instructional management plan determines goals to be accomplished. One hundred, eighty (180) hours of work in an early childhood program is required as well as the ability to work independently to exhibit competencies learned in previous early childhood courses. The laboratory component of this course requires students to obtain (at their own expense) a tuberculin (TB) skin test and a background screening from the Family Care Safety Registry (FCSR) within the first two weeks of class. See Department Chair for course application. *Prerequisite: Completion of 30 credit hours in ECD courses and 2.0 GPA or program permission.*

ECD-299 Capstone for Early Childhood Development 4-1-3

This advanced capstone course provides students the opportunity to be reflective, use critical and creative thinking skills and examine their pedagogical knowledge and skills from a multicultural perspective. One hundred, eighty (180) hours of work in an early childhood program is required. Students will compile a professional portfolio aligned with the National Association for the Education of Young Children (NAEYC) Standards and participate in a teacher research project. The laboratory component of this course requires students to obtain (at their own expense) a tuberculin (TB) skin test and a background screening from the Family Care Safety Registry (FCSR) within the first two weeks of class. *Prerequisites: ECD 101, ECD 110, ECD 120, ECD 165, ECD 170, ECD 210, ECD 225, ECD 230 and ECD 260 or program permission.*

ECO–EDUCredit Hours-Lecture-Lab
X=Variable**(ECO) ECONOMICS****ECO-270 Principles of Macroeconomics 3-3-0**

This course provides an introduction to the origin and derivation of economic systems. This course includes a look at the structure, organization, operation, and the goals of the United States economic system. A study in basic economic principles, including the role of the government in conducting economic policies (spending and taxes), the role of the Federal Reserve in managing the supply of money, and the role of others (including households and businesses) in determining economic outcomes is included. This course prepares students for further study in economics. *Prerequisite: Grade of "NC" or better in MTH 050 or higher or equivalent score on the placement assessment.*

ECO-275 Principles of Microeconomics 3-3-0

This course is an introduction to microeconomic analysis. It is an in-depth look at the behavior of the individual and businesses as it relates to the determination of the price structure, distribution of income, and trade. This course is an examination of the participants and structures of the marketplace. *Prerequisite: ECO 270.*

(EDU) EDUCATION**EDU-150 Introduction to Teacher Education 1-1-0**

This course is for students interested in pursuing the Associate of Arts in Teaching (AAT) degree program. EDU 150 is an introductory course to the field of education, and introduces students to degree and certification requirements in Missouri. To successfully complete EDU 150, students must pay for and pass a criminal background screening (\$12) and complete the Missouri Educator Profile, the cost for which is covered by the \$22 course fee. Other topics covered in the course include state standards for teachers and for PK-12 students, PK-12 curriculum, and teacher professionalism. A grade of "B" or better in this course is required to take additional Education courses at OTC.

EDU-220 Foundations of Education 3-3-0

This course is designed to examine the historical, philosophical, sociological, political, economic and legal foundations of the American public education system. Students explore the nature of school environments, design and organization of school curricula and characteristics of effective schools and instruction in grades P-12. Educational structures, practices and projections for the future are also studied. *Prerequisite: Grade of "C" or better in ENG 101, Grade of "B" or better in EDU 150, and a 2.75 minimum GPA.*

EDU-225 Technology for Teachers 3-3-0

In this course, students learn how to integrate instructional technology into P-12 classrooms. Students study a variety of software programs, presentation technology, and telecommunication tools. The focus is also on the social, ethical, legal and human issues surrounding the use of technology. *Prerequisites: CIS 101, Grade of "C" or better in ENG 101, Grade of "B" or better in EDU 150, and a 2.75 minimum GPA.*

EDU-250 Educational Psychology 3-3-0

This course relates psychological principles to teaching, learning and assessment and the educational practice in P-12 classrooms. It focuses on the learner and the learning process, teacher characteristics and classroom processes that increase student motivation. Student diversity and appropriate instructional strategies for students with special needs are also introduced. *Prerequisites: Grade of "C" or better in ENG 101, Grade of "B" or better in EDU 150, PSY 110 or PSY 130 and a 2.75 minimum GPA.*

EDU-260 Education of Exceptional Learners 3-3-0

This course is an introduction to exceptional learners and their education in grades P-12. Students attain knowledge, skills and dispositions that enable them to work effectively with exceptional learners in general education or special education. *Prerequisite: Grade of "C" or better in ENG 101 and a 2.75 minimum GPA.*

EDU-270 Teaching Profession with Field Experience 3-3-0

This course provides students an opportunity to observe teaching and learning for thirty (30) hours or more in P-12 classrooms. Students are introduced to the requirements for teacher preparation and certification. Students examine characteristics of effective teaching. The course is

EDU–EGR–ELC

Credit Hours-Lecture-Lab

X=Variable

designed to assist students in determining if a career in teaching is an appropriate goal. A background check is required. *Prerequisite:* Grade of "C" or better in ENG 101, grade of "B" or better in EDU 150, and a 2.75 minimum GPA.

EDU-290 Co-Operative Ed/Intern/Related Elective**Variable 1-3**

This course is a supervised work experience in the major discipline, providing the student with the opportunity to make practical application of the skills and knowledge attained through coursework. An individual application and instructional management plan determine the student's goals. *Prerequisites:* Completion of 30 credit hours or more and permission of department chair.

(EGR) ENGINEERING**EGR-100 Study and Careers in Engineering****1-1-0**

This course provides an examination of fields of engineering and career opportunities in engineering. The profession expectations for engineers will be studied. Students will be introduced to the campus resources for assisting student success.

EGR-201 Engineering Statics**3-3-0**

In this engineering statics course, students gain practical experience in techniques for analyzing in detail the forces and moments that act on structures in equilibrium. *Prerequisites:* Grade of "C" or better in PHY 220, MTH 240 or concurrent enrollment.

EGR-204 Statics and Dynamics**3-3-0**

This is an engineering statics and dynamics course for electrical engineering majors. This course focuses primarily on the two dimensional analysis of statics and dynamics, including equilibrium, trusses, frames, particle motion, conservation of energy and momentum, and rigid body dynamics. *Prerequisites:* Grade of "C" or better in PHY 220, MTH 240.

EGR-205 Engineering Dynamics**3-3-0**

This is an engineering dynamics course focusing on the application of the principles of mechanics to engineering problems of motion and acceleration. Topics include plane motion; force, mass, and acceleration; work and energy; and impulse and momentum. *Prerequisites:* Grade of "C" or better in EGR 201, MTH 240.

EGR-250 Engineering Design with Computer Applications**4-2-4**

This course provides an introduction to software tools (computer aided design drafting, computer mathematics, word processing, spread sheets) with application to professional engineering practice. Principles of engineering design are studied. A semester long group design project is an integral part of the course. *Prerequisites:* CIS 101; PHY 220 or PHY 222 or concurrent enrollment.

(ELC) ELECTRICAL**ELC-100 Introduction to Electrical Theories and Safety****3-2-2**

This course will provide fundamental instruction in safety methods and procedures and basic electrical theory. Course topics will focus on electrical safety, an introduction to the National Electrical Code (NEC), physics of matter, insulators and conductors, theories of electricity, usage of electrical meters, conduit bending and house wiring methods.

ELC-110 Electrical Formulas and Circuitry**4-2-4**

This course will provide fundamental instruction in electrical equipment, codes, and theories of electricity. Course topics will focus on the National Electrical Code (NEC), safe installation of electrical equipment, color coding, branch circuits, voltage and current, electrical mathematical formulas, power loss and electrical circuits. *Prerequisites:* Grade of "C" or better in ELC 100.

ELC–EMP

Credit Hours-Lecture-Lab
X=Variable

ELC-115 **Print Reading for Electrical Trades** **4-2-4**

This course will provide instruction to read, understand, interpret and apply information from the various types of blueprints, shop prints and schematics used in an electrical environment. This course includes instruction on the different types of standard symbols and abbreviations found on electrical construction drawings, schematics, and wiring diagrams. *Prerequisites: Grade of "C" or better in ELC 100.*

ELC-120 **Wiring Methods and Power Distribution Applications** **4-2-4**

This course will provide fundamental instruction in wiring methods, codes, power distribution, and circuit protection. Course topics will focus on wiring methods, National Electrical Code (NEC) application to insulators and conductors, box fill, power distribution, circuit protection and power quality. *Prerequisites: Grade of "C" or better in ELC 100.*

ELC-130 **Basic Power Generations and Code Requirements** **4-2-4**

This course will provide fundamental instruction in how electricity is generated. Course topics will focus on capacitors, induction, power factor and power loss in an AC circuit, motor theory, transformers, conductors, overcurrent protection and ground and bonding of electrical systems. *Prerequisites: Grade of "C" or better in ELC 100.*

ELC-200 **Application of NEC to Electrical Apparatus** **4-2-4**

This course will provide fundamental instruction in applying the National Electrical Code (NEC) to a variety of electrical systems, equipment, and hazardous locations. Course topics will focus on panelboards, lighting systems, appliances, motors and controllers, air-conditions, generators, transformers, capacitors, safety in hazardous locations, health care facilities and blueprint reading. *Prerequisites: Grade of "C" or better in ELC 100.*

ELC-210 **Application of NEC to Unique Systems and Location** **4-2-4**

This course will provide fundamental instruction in applying the National Electrical Code (NEC) to a variety of locations and systems. Course topics will focus on ground electrical systems, mobile and manufactured homes, marinas, elevators, swimming pools, emergency power systems, fire alarms, optical fiber communication, and motor controls and signaling circuits. *Prerequisites: Grade of "C" or better in ELC 100.*

ELC-220 **VFD and PLC Operations and Maintenance** **4-2-4**

This course will provide basic fundamental instruction in variable frequency drive and programmable logic controller operations and maintenance. Course topics will focus on bonding and grounding, variable frequency drive motors, programmable logic controllers, fiber optics and fire alarm systems. *Prerequisites: Grade of "C" or better in ELC 100.*

ELC-230 **Preparation for National Electric Certification** **3-3-0**

This course prepares students to apply collective knowledge of National Electric Code (NEC) and general electrical knowledge in order to take a certification examination. Course topics focus on electrical mathematics, circuits and alternating current, motor controllers, raceway and box fill calculations, and single family load calculations. *Prerequisites: Grade of "C" or better in ELC 100.*

(EMP) ELECTRONIC MEDIA PRODUCTION

EMP-100 **Still Video Production** **1-0-2**

Note: Course only offered in the fall semester. This course provides intensive hands-on instruction in state of the art image editing, compositing and special effects. Students will complete a variety of projects using backgrounds, image layering and effects.

EMP-101 **Video Effects** **1-0-2**

Note: Course only offered in the spring semester. This course provides intensive hands-on instruction in state of the art video effects, compositing and special effects. Students will complete a variety of projects using backgrounds, image layering and effects.

EMP-102 **Introduction to Electronic Media Production** **4-2-4**

Students will study the history of electronic media from radio broadcast through television to present day media delivery. This course will include an associated lab designed to introduce students to electronic media editing systems available today.

Credit Hours-Lecture-Lab

X=Variable

EMP-103 Podcasting**1-0-2**

Note: Course only offered in the fall semester. This is a fast-moving hands-on course which will prepare the student to record, edit and store information in the proper format for web publication in the form of podcasts. Each class will produce a scheduled series of podcasts for dissemination on the web.

EMP-104 Lighting Fundamentals**1-0-2**

Note: Course only offered in the spring semester. This course provides intensive hands-on instruction focusing on the basic principles of lighting for video. Students will complete a variety of projects using different lighting setups and techniques.

EMP-110 Sound Design**4-2-4**

Note: Course only offered in the spring semester. Explore microphone usage and multi-layered audio post production software. Students will perform and produce commercial messaging, news delivery, and focus on varied audio elements of video production.

EMP-115 Studio Television Production**4-2-4**

Note: Course only offered in the fall semester. This course provides an introduction to multi-camera studio production. Students will practice camera operation, lighting, audio recording and switching in teams while producing various television formats including news, interviews and commercial messages.

EMP-117 Video Systems**4-2-4**

Note: Course only offered in the spring semester. This is a basic video course and focuses on the principles of design and operation of basic video systems. This includes live and studio camera operation and lighting techniques. This course supports voice, video, images incorporated in stage and video, recording and editing production technology.

EMP-127 Audio Engineering**4-2-4**

This course explores the aesthetic and practical considerations employed in effective audio design in both studio and live production mixing. Students will study and operate multitrack recorders, digital editors, sound processing equipment and microphone placement. Emphasis will be on developing audio content, producing varied audio and editing the sources into a professional presentation. *Prerequisite: Grade of "C" or better in EMP 110.*

EMP-208 Digital Video Production**4-2-4**

Note: Course only offered in the fall semester. Digital Video Production concentrates on advanced video production and non-linear editing techniques. This includes field and studio television production and editing employing current digital production suites. Students will produce and post-produce several productions of increasing complexity including commercial messages, documentaries and music videos.

EMP-210 Photojournalism**4-2-4**

Principles and practice of videography, still photography, news delivery, image processing, camera operation, and foundations of journalism are covered. Students will gather and process still images, video and audio in a newsroom simulated environment.

EMP-216 3-D Animation**4-2-4**

Note: Course only offered in the fall semester. This course focuses on the principles of design and operation of 3-D animation. This includes camera placement, lighting, designing and rendering virtual scenes. This course supports 3-D animation for commercial as well as full length productions.

EMP-218 Video Game Design**4-2-4**

Note: Course only offered in the spring semester. This course provides hands on experience in creating interactive video games as well as offering a historical and critical approach to the evolution of computer and video game design from its beginnings to the present. It brings together cultural, business, and technical perspectives. This will lead to an understanding of the history of this medium, as well as insights into design, production, marketing, and sociocultural impacts of interactive entertainment and communication.

EMP-250 Digital Special Effects**4-2-4**

Note: Course only offered in the spring semester. This course provides intensive hands-on instruction in state of the art video effects editing and video compositing and special effects. Students will complete a variety of video projects using animated backgrounds, video layering and after effects. These will include commercial messages, video trailers and music videos. *Prerequisite: EMP 208.*

EMP–EMS–EMT

Credit Hours-Lecture-Lab
X=Variable

EMP-263 Producing and Directing Television 4-2-4

Note: Course only offered in the spring semester. Students will produce and direct two broadcast quality videos, as well as serve as crew on other student productions. This will include extensive use of skills from prerequisite courses in addition to production scheduling, scripting, casting, set design and crew management. The final project will be a personal audition tape suitable for submission to potential employers. *Prerequisites:* EMP 102, EMP 110, EMP 117, and EMP 208 (or concurrent enrollment in EMP 208).

EMP-290 Co-Operative Ed/Intern/Related Elective Variable 1-3

This course entails a supervised work experience in the major field which provides the student with the opportunity to make practical application of the knowledge and skills attained. An individualized instructional management plan will determine goals to be accomplished. Seminars may also be required. *Prerequisites:* Completion of 30 credit hours and 2.0 GPA or advisor's approval. Please see the department chair of the specific program area for application.

(EMS) EMERGENCY MANAGEMENT SYSTEMS

EMS-100 Real Disasters: Understanding and Managing the Consequences 3-3-0

This course is intended to provide information that will enable persons just entering the profession or expanding their roles to have the ability to work with the main emergency management and homeland security issues.

(EMT) EMERGENCY MEDICAL TECHNICIAN—PARAMEDIC

EMT-101 Emergency Medical Technician—Basic 6-4-2

This course educates the student in aspects of emergency care required to qualify the student to write the certification examination offered by the Missouri Department of Health, Bureau of Emergency Medical Services. The course consists of three components: classroom, clinical experiences and an internship. Incorporated in these areas are the pre-hospital environment, systems assessment, trauma intervention, medical intervention and obstetrics/pediatrics. *Prerequisites:* Selective Admission and students must be 18 years of age or older. Valid drivers license required.

EMT-155 EMT Intermediate 6-4-4

The course is designed to educate the EMT-Intermediate student in advanced aspects of emergency care. The EMT-Intermediate student will be able to provide an advanced level of patient care. Topics covered include advanced airway management, advanced patient assessment, advanced trauma and medical interventions, advanced pharmacology and basic cardiology. *Prerequisites:* Current Missouri EMT-Basic license and admission to the EMT-Paramedic Program.

EMT-160 Intermediate Clinical Rotation 3-0-x

This course is a continuing clinical experience in which students utilize the skills learned in the didactic portion of the program in the hospital where those skills can be refined. *Prerequisite:* Grade of "C" or better in EMT 101.

EMT-170 Intermediate Field Internship 6-0-x

This course entails a field experience in which students utilize the skills learned in the didactic and clinical portions of the program under the supervision of an experienced paramedic preceptor. *Prerequisite:* Grade of "C" or better in EMT 101. *Co-requisite:* EMT 155 and EMT 160.

EMT-200 Paramedic I 6-4-4

This course covers the introductory phase of the EMT-Paramedic program, including medical terminology, patient assessment and initial management, advanced airway management, lifespan development, therapeutic communications and pathophysiology of shock. *Prerequisites:* Admission to the EMT-Paramedic Program, Missouri EMT-Basic License, BCS 145 and BCS 146.

EMT–ENG

Credit Hours-Lecture-Lab

X=Variable

EMT-201 Paramedic II 5-3-4

This course covers topics which will include trauma and burns: respiratory emergencies; endocrine emergencies; nervous system; abdominal emergencies; anaphylaxis, toxicology, alcoholism and drug abuse; infectious diseases; environmental emergencies; geriatrics; pediatrics; OB/GYN; neonatal emergencies; and psychiatric emergencies. *Prerequisite: Grade of "C" or better in EMT 101, EMT 200, EMT 210, EMT 220, EMT 230 and EMT 231. Grade of "C" or better in BCS 145, BCS 146 and BCS 210.*

EMT-210 Cardiology for the EMT—Paramedic 4-3-2

This course provides students with a basic understanding of the cardiovascular system, including acute and chronic disease processes, electrocardiography (including 12-lead acquisition and interpretation) and emergency treatment modalities. *Prerequisites: Admission to the EMT-Paramedic program, Missouri EMT-Basic license, Grade of "C" or better in all of the previous EMT-Paramedic courses.*

EMT-220 Pharmacology for the EMT—Paramedic 2-2-0

This course will provide students with an understanding of the indications, contraindications, mechanisms, and principles of pharmacological intervention in emergency patients. *Prerequisites: Admission to the EMT-Paramedic program, Missouri EMT-Basic License, Grade of "C" or better in all of the previous EMT-Paramedic courses.*

EMT-230 Clinical Rotations I 2-0-X

This course encompasses a clinical experience in which students utilize the skills learned in the didactic portion of the program in the hospital, where those skills can be refined. *Co-requisite: EMT 200.*

EMT-231 Clinical Rotations II 4-0-X

This course is a continuing clinical experience in which students utilize the skills learned in the didactic portion of the program in the hospital, where those skills can be refined. *Prerequisite: Grade of "C" or better in all of the previous EMT-Paramedic courses.*

EMT-232 Clinical Rotations III 4-0-X

This course is a continuing clinical experience in which students utilize the skills learned in the didactic portion of the program in the hospital, where those skills can be refined. *Prerequisite: Grade of "C" or better in all of the previous EMT-Paramedic courses.*

EMT-240 Paramedic Field Internship 7-0-0

This course entails a field experience in which students utilize the skills learned in the didactic and clinical portions of the program under the supervision of an experienced paramedic preceptor. *Prerequisite: Grade of "C" or better in all of the previous EMT-Paramedic courses. Co-requisites: EMT 201 and EMT 232.*

EMT-280 Paramedic Refresher 3-3-0

This course is designed to adhere to and include the content of the National Standard EMT-Paramedic Refresher Curriculum (DOT). It will meet or exceed the standards of the National Registry of EMTs and the State of Missouri Bureau of EMS. *Prerequisites: Admission to OTC, meet current guidelines put forth by the National Registry of EMTs and the State of Missouri Unit of EMS.*

(ENG) ENGLISH**ENG-040 Introduction to Writing 3-3-0**

English 040 prepares the student to enter English 050 by developing introductory writing skills including structuring essays, developing paragraphs, and recognizing that audience and purpose affect texts. Students will progress from single-paragraph writing to multi-paragraph essays. Students will be required to participate in coursework, the Writing Proficiency, and a standardized final exam. Students enrolled in English 040 must successfully complete the exit process with a grade of NC or higher in order to take

ENGCredit Hours-Lecture-Lab
X=Variable**ENG-041 Introductory Composition I for ESL 3-3-0**

English 041 prepares the student to enter English 051 by focusing on the foundations of composition and by progressing from sentences to multi-paragraph writing assignments. Students review writing basics and develop writing skills through application and practice within the context of single and multi-paragraph texts and other writing assignments. Students will practice listening and speaking skills in class discussions and assignments. Students enrolled in English 041 must complete the course with a grade of NC or higher in order to take English 051.

ENG-050 Foundations of College Writing 3-3-0

English 050 prepares the student to enter English 101 by developing skills necessary for college-level writing including adapting texts to affect an audience and accomplish a purpose, developing essays, and introducing beginning concepts of research and documentation. Students will progress from multi-paragraph writing assignments to more complex compositions. Students will be required to participate in coursework, the Writing Proficiency, and a standardized final exam. Students enrolled in English 050 must successfully complete the exit process with a grade of NC or higher in order to take English 101.

ENG-051 Introductory Composition II for ESL 3-3-0

English 051 for ESL students prepares the student to enter English speaking college level classes by focusing on skills necessary for college-level comprehension and composition, including knowledge of audience and purpose, paragraph and essay development, and beginning concepts of research and documentation. This course includes an integrated study of English grammar, comprehension, communication and composition. Students will progress from multi-paragraph writing assignments to larger compositions. English 051 classes will require at least four major assignments, including three writing assignments (ranging in lengths from 1-5 pages per assignment) and a course final. Students enrolled in English 051 must successfully complete the course with a grade of NC or higher and an appropriate score on the COMPASS in order to take English 101.

ENG-101 Composition I 3-3-0

English 101 introduces students to college-level writing and thinking through personal narrative, analytical and research-supported writing. The processes of critical thinking, composing, revising and editing are emphasized. Students will learn basic research skills and documentation techniques. *Prerequisite: Grade of "NC" or better in ENG 050 and RDG 050 or satisfactory score on the Placement Assessments.*

ENG-102 Composition II 3-3-0

This course continues developing students' abilities to use research and writing to make informed conclusions. In addition, the course develops students' skills to communicate these conclusions to professional and expert audiences. Emphasis is placed on honing skills of audience analysis, analytical reading, critical thinking, research methods, and persuasive writing. Also, this course will introduce students to patterns and conventions of multiple disciplinary communities. *Prerequisite: ENG 101.*

ENG-150 Technical Writing 3-3-0

This course emphasizes developing the student's ability to write clearly, concisely and accurately. Students practice collecting, analyzing, interpreting and presenting information in a variety of technical documents used in professional settings while using proper research and documentation techniques, sound visual design principles and effective writing styles suitable for a specific communicative context. Throughout, emphasis will be placed on honing skills in audience analysis, analytical reading, critical thinking, research methods and clear writing. *Prerequisite: ENG 101.*

ENG-180 Introduction to Literature 3-3-0

In this course, students read a wide selection of literary works from a variety of cultures and times. The primary characteristics of fiction, poetry and drama will be introduced, as students analyze the impact of social, cultural, linguistic and historical circumstances upon the literary imagination. *Prerequisite: ENG 101 or concurrent enrollment.*

ENG-195 Selected Topics in Literature 1-1-0

In this course, students read a narrow selection of literary works from a specific author, culture, era or region. The emphasis is on reading for understanding and enjoyment. Course can be repeated up to three times for credit, provided the topic is different each time. *Prerequisite: ENG 101 or concurrent enrollment.*

ENG–ENV

Credit Hours-Lecture-Lab

X=Variable

ENG-210 Creative Writing—Short Story 3-3-0

This course is an introduction to the theory, technique, and terminology of short story writing and practical experience in writing in the form. *Prerequisite: ENG 101.*

ENG-215 Creative Writing—Poetry 3-3-0

This course provides an introduction to the theory, technique, and terminology of poetry writing and practical experience in writing in the form. *Prerequisite: ENG 101.*

ENG-220 American Literature: Beginnings—1870 3-3-0

Students in English 220 read and discuss major works of American nonfiction, fiction, poetry and drama written before 1870. The impact of the historic and cultural environment upon the literature is considered as students read for both critical analysis and appreciation. *Prerequisites: ENG 101.*

ENG-225 American Literature: 1870—Present 3-3-0

Students in English 225 read and discuss major works of American nonfiction, fiction, poetry and drama written since 1840. The impact of the historic and cultural environment upon the literature is considered as students read for both critical analysis and appreciation. *Prerequisites: ENG 101.*

ENG-240 British Literature I: Beginnings—1790 3-3-0

Students read and discuss major works of English nonfiction, fiction, poetry and drama written before 1790. The impact of the historic and cultural environment upon the literature is considered as students read for both critical analysis and appreciation. *Prerequisites: ENG 101.*

ENG-245 British Literature II: 1790—Present 3-3-0

Students read and discuss major works of English nonfiction, fiction, poetry and drama written since 1790. The impact of the historic and cultural environment upon the literature are considered as students read for both critical analysis and appreciation. *Prerequisites: ENG 101.*

ENG-250 Children's Literature 3-3-0

This course is an examination of literature suitable for preschool through elementary grades, including its development, its writing and publication, storytelling methods and criteria for selection and evaluation. *Prerequisite: ENG 101.*

ENG-260 Survey of World Literature I 3-3-0

Students in English 260 read and discuss a wide selection of the greatest literary works ever written, from the beginnings to 1600. The impact of the historic and cultural environment upon the literature are considered as students read for both critical analysis and appreciation. *Prerequisite: ENG 101.*

ENG-265 Survey of World Literature II 3-3-0

Students in English 265 read and discuss a wide selection of the greatest literary works ever written, from 1600 to the present. The impact of the historic and cultural environment upon the literature are considered as students read for both critical analysis and appreciation. *Prerequisite: ENG 101.*

(ENV) ENVIRONMENTAL SCIENCE TECHNOLOGY**ENV-201 Introduction to Environmental Protection Technology 3-3-0**

This course provides a foundation in which environmental science and protection technicians can study the science of environmental technology and remediation techniques of specific media including water, wastewater, air, noise, and hazardous waste. Environmental pollution sources, risk, regulations, and remediation are presented, along with discussions of environmental science and protection technicians role within the assessment and remediation process.

ENV-202 Water Quality Testing 3-2-2

This course provides an overview in which environmental science and protection technicians can study the principals of water quality management. Topics will include; quality standards for drinking water, regulations, and health and aesthetic aspects of drinking water. Chemical principals, source water composition, watershed protection, and water treatment processing will be presented along with discussions of the role environmental science and protection technicians will have in water quality testing and remediation processes.

ENV–ESL–FRN–FST

Credit Hours-Lecture-Lab
X=Variable

ENV-203 Air Quality Testing 3-3-0

This course provides an overview in which environmental science and protection technicians can study the impacts of air pollution and its regulations and reduction techniques. Topics will include the sources of selected air pollutants and source identification tools, chemical transformation and removal processes of the pollutants, characteristics of particulate matter (PM), measurement techniques of concentrations, particle-size distributions, and deposition. Regulations, exposure routes, human health effects, epidemiology, and risk are presented with discussions of environmental science and protection technician's role within the assessment and remediation process.

ENV-205 Occupational Health 3-3-0

This course provides a foundation in which environmental science and protection technicians can study the impacts of environmental sampling and process techniques on physical and psychological health. Environmental hazards, personal protective equipment, environmental laws, regulations, and enforcement of occupational health and safety standards/regulations are presented. Environmental science and protection technician's use of safety techniques and protection practices in the field will be measured.

(ESL) ENGLISH AS A SECOND LANGUAGE

ESL-050 English as a Second Language/ TOEFL® Test Preparation 3-3-0

Students taking this course are exposed to situations and materials supporting comprehension, listening, speaking, writing and reading of the academic English language. Completion of this course demonstrates increased ability to use English language in both fundamental and philosophical concepts important in college interaction and studying. Students are familiarized with the format and instructions of the computerized TOEFL® test (required for international student admissions to all colleges and universities in North America) and the types of questions in each section (listening comprehension, grammar, and reading comprehension).

(FRN) FRENCH

FRN-101 Beginning French I 3-3-0

This course introduces students to the basic structures and vocabulary of the French language as well as French-speaking cultures. All four skills are addressed: listening, speaking, reading and writing.

FRN-102 Beginning French II 3-3-0

This course broadens the basic communication skills of French. Using a four-skills approach that emphasizes meaningful communication in cultural context, students will build upon existing knowledge to interact effectively with course members to accomplish a variety of everyday tasks in culturally astute ways.

(FST) FIRE SCIENCE TECHNOLOGY

FST-102 Building Construction 3-3-0

Note: Course only offered in the fall semester. This course covers teaching the basic information about how buildings are designed and constructed; aid in the decision making process related to fire prevention and fire control.

FST-103 Emergency Medical Responder 3-3-0

This course focuses on the role of the Emergency Medical First Responder to initiate immediate lifesaving care to critical patients who access the emergency medical system through 911.

FST-106 Firefighter I and II**6-4-4**

This course is based on the National Fire Protection Association 1001, "Standard for Fire Fighter Professional Qualifications," current edition. The performance requirements and practical skills necessary to perform the duties of a firefighter are thoroughly covered. Topics include fire service orientation, safety, fire behavior, self-contained breathing apparatus, ropes, hoses, ladders, rescue, ventilation, salvage, overhaul, portable fire extinguishers, emergency medical care, fire control, water supply and fire prevention. Individuals successfully completing this course and meeting the requirements of Missouri Division of Fire Safety will be eligible for certification as Firefighter I and II by the Division of Safety. *Prerequisite: FST 120 or concurrent enrollment, or have documentation of having the state certifications for Hazardous Materials Awareness and Operations courses.*

FST-107 Fire Prevention**3-3-0**

Note: Course only offered in the spring semester. This course provides fundamental knowledge related to the field of fire prevention. Topics include history and philosophy of fire prevention; organization and operation of a fire prevention bureau; use and application of codes and standards; plans review; fire inspections; fire and life safety education; and fire investigation.

FST-109 Fire Hydraulics**3-3-0**

Note: Course only offered in the fall semester. This is a basic course focusing on the measurement of fluid flow, determination of water supply, fluid movement and velocities. This course emphasizes applying principles of hydraulics to practical firefighting situations.

FST-110 Firefighter Safety & Survival**3-3-0**

This course introduces the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural change and behavior change throughout the emergency services.

FST-111 Strategy and Tactics**3-3-0**

Note: Course only offered in the fall semester. This course focuses on effective and efficient utilization of manpower, equipment and apparatus in emergency situations. Emphasis is placed on pre-planning, fireground decision making and attack strategies and tactics.

FST-117 Fire Protection Systems**3-3-0**

Note: Course only offered in the spring semester. This course provides an overview of fire protection systems including standpipe and hose systems, sprinklers, dry powder, carbon dioxide systems, foam, smoke detection and heat actuating systems. Emphasis is placed on the need for the design, installation and fire department inspection of these various types of systems.

FST-120 Hazardous Materials**3-3-0**

This course is based on NFPA 472, Standard for Professional Competence of Responders to Hazardous Materials Incidents (current edition). This course focuses on chemical characteristics and reactions related to the storage, transportation and handling of hazardous materials. Emphasis is placed on the handling of hazardous materials emergencies, fire control and containment. Individuals successfully completing this course and meeting the requirements of the Missouri Division of Fire Safety will be eligible for state certification to the Hazardous Materials Operations level by the Division of Fire Safety.

FST-207 Community Risk Reduction**3-3-0**

This course provides a theoretical framework for the understanding of the ethical, sociological, organizational, political, and legal components of community risk reduction, and a methodology for the development of a comprehensive community risk reduction plan. *Prerequisite: Grade of "C" or better in FST 107, FST 211, FST 215.*

FST-210 Fire Department Officer**3-3-0**

Note: Course only offered in the fall semester. This course addresses NFPA 1021, Standard for Fire Officer Professional Qualifications (current edition). The role of a Company Officer is discussed, along with how that role relates to the department, the community, liability and legal responsibilities attached to this position. Discussion of labor relations, budgeting, information management and fire department communications are included. Company level inspections, investigations and training are discussed along with emergency service delivery. The Company Officers' responsibilities relating to firefighter safety and health are also discussed. Students successfully completing this course and meeting the requirements of Missouri Division of Fire Safety will be eligible for certification as Fire Officer I by the Division of Safety. (Students must have a minimum of three years experience in the fire service or a letter of recommendation from the executive fire officer of the department in order to apply for state certification) *Prerequisite: FST 106 or concurrent enrollment and FST 215 or concurrent enrollment.*

FST

Credit Hours-Lecture-Lab

X=Variable

FST-211 Fire Officer II 3-3-0

Note: Course only offered in the spring semester. This course addresses NFPA 1021, Standard for Fire Officer Professional Qualifications (current edition). The role of a Company Officer is discussed, along with how that role relates to the department, the community, liability and legal responsibilities attached to this position. Discussion of labor relations, budgeting, information management and fire department communications are included. Company level inspections, investigations and training are discussed along with emergency service delivery. The Company Officers' responsibilities relating to firefighter safety and health are also discussed. Students successfully completing this course and meeting the requirements of Missouri Division of Fire Safety will be eligible for certification as Fire Officer I by the Division of Safety. *Prerequisite: Grade of "C" or better in FST 106, FST 210, FST 215.*

FST-212 Administrative Fire Officer III 3-3-0

Note: Course only offered in the fall semester. This course addresses NFPA 1021, Standard for Fire Officer Professional Qualifications (current edition). A course specialized for the chief officer who is ready to advance into the upper management level of his/her department. This course consists of subjects designed to give the officer more knowledge of management and administration so that he/she can make basic evaluations of employee relations and assume a more proactive role in their department. This is a projects-based class. *Prerequisite: FST Grade of "C" or better in FST 210 and FST 211.*

FST-215 Fire Service Instructor I 3-3-0

Note: Course only offered in the fall semester. This course is based on NFPA 1041, Standard for Fire Service Instructor Professional Qualifications (current edition). This course will provide basic instructional knowledge that is necessary to develop skills for preparing and presenting training for fire and emergency service organization personnel. Topics covered in this course include dealing with outline and course development, using visual aids and testing procedures. Individuals successfully completing this course and meeting the requirements of Missouri Division of Fire Safety will be eligible for certification as Fire Service Instructor I by the Division of Fire Safety.

FST-216 Fire Instructor II 3-3-0

Note: Course only offered in the spring semester. This course is based on NFPA 1041, Standard for Fire Service Instructor Professional Qualifications (current edition). This course will provide basic lesson plan development and course evaluation that is necessary to develop skills for preparing and presenting training for fire and emergency service organization personnel. Topics covered in this course include dealing with outline and course evaluation and testing procedures. Individuals successfully completing this course and meeting the requirements of Missouri Division of Fire Safety will be eligible for certification as Fire Service Instructor II by the Division of Fire Safety. *Prerequisite: FST Grade of "C" or better in FST 215 and FST 210.*

FST-230 Introduction to Fire Origin and Cause 3-3-0

Note: Course only offered in the spring semester. This course is based on NFPA 1033, Standard for Professional Qualifications for Fire Investigator (current edition). This course is intended to provide the student with the fundamental and technical knowledge needed for proper fire scene interpretations including recognizing and conducting origin and cause, preservation of evidence and documentation, scene security, motives of firesetters and types of fire causes.

FST-231 Fire Investigation II 3-3-0

This course is based on NFPA 1033, Standard for Professional Qualifications for Fire Investigator (current edition). This course is intended to provide the student with the fundamental and technical knowledge on the applicable laws needed for proper fire scene investigation and an understanding of the dynamics of fire behavior, as well as the preparation and presentation of a court case. *Prerequisites: Grade of "C" or better in FST 210 and FST 230.*

FST-240 Occupational Safety and Health for Emergency Responders 3-3-0

Note: Course only offered in the fall semester. This course introduces the basic concepts of occupational health and safety as it relates to emergency service organizations. Includes risk evaluation and control procedures for fire stations, training sites, emergency vehicles, and emergency situations involving fire, EMS, hazardous materials, and technical rescue. *Prerequisites: Grade of "C" or better in FST 106 and FST 210 or concurrent enrollment.*

FST–GDT

Credit Hours-Lecture-Lab

X=Variable

FST-250 Fire Service Reports & Communication**3-3-0**

With an emphasis on providing tools, not rules; students will focus on the types of communication required by jobs in fire department operations. Designed for those who need to polish skills used in their current positions, students, in this course will analyze and write a variety of reports, memos, proposals and other communications used everyday in the fire service.

FST-275 Legal and Contemporary Issues of Fire and Emergency Services**3-3-0**

Note: Course only offered in the spring semester. This course will address the federal, state, and local laws that regulate emergency services and include a review of national standards, regulations, and consensus standards and examine the broad spectrum of change confronting the fire service. Emphasis will be placed upon the identification of crucial issues that will affect the future of the fire service over the next decade. Areas of discussion include regionalization, privatization, alternative forms of special delivery, paradigm shifts, environmental scanning and the need to be a proactive agent of community-based change. *Prerequisites: FST 106, FST 215, FST 230, ENG 101, ENG/COM elective, PLS 101 or concurrent enrollment, PSY 110 or concurrent enrollment.*

FST-280 Capstone Assessment**2-2-0**

Note: Course only offered in the spring semester. This is a comprehensive assessment course covering Fire Science Technology program classes. A student must earn a Grade of "C" or better in this course to meet the FST graduation requirements. *Prerequisites: FST 106, FST 107, FST 109, FST 111, FST 117, FST 210, FST 215 and 45 credit hours completed.*

FST-290 Co-Operative Ed/Internship**Variable 1-3**

This course encompasses a supervised work experience in the major field which provides the student with the opportunity to make practical application of the knowledge and skills attained through coursework. An individualized instructional management plan will determine goals to be accomplished. Seminars may also be required. *Prerequisites: Completion of 30 credit hours and 2.0 GPA or advisor's approval. Please see the Department Chair of specific program area for application.*

(GDT) GRAPHIC DESIGN TECHNOLOGY**GDT-105 Graphic Design I****4-2-4**

This is an introductory course that focuses on development of visual concepts and basic design principles and elements of visual communication. Emphasis is on the creative process, typography, color systems and imagery through different forms of communication. Labs provide industry standard software for hands-on application.

GDT-115 Typography**4-2-4**

This course addresses the language of type and its effective use. Emphasis is on exploration of typographic structures, terminology and methods for visual communication.

GDT-122 Page Layout Design**4-2-4**

This course is a study of the art of organizing typography, graphics and imagery. Using industry standard software the student will build publication designs with a specific message for a defined audience. *Prerequisites: Grade of "C" or better in GDT 105, GDT 115.*

GDT-125 Digital Illustration**4-2-4**

This is a course that focuses on the art of illustration. The emphasis will be creating visual illustrations that communicate a specific message to a defined audience. *Prerequisite: Grade of "C" or better in GDT 105.*

GDT-138 Cosmic Book Art and Design**2-1-2**

This course is a study and exploration of the various methodologies, techniques, and tools used to create sequential graphic art in support of clear storytelling and communication. The student will apply these elements to create comic book pages, focusing on clear and concise layouts/designs. .

GDT

Credit Hours-Lecture-Lab

X=Variable

GDT-142 Digital Story Design 2-1-2

This course focuses on developing compositions for storytelling and output through digital imagery and color schemes. *Prerequisite: Grade of "C" or better in GDT 105.*

GDT-143 Animation 2-1-2

This course introduces the principles of drawing and the creation of characters to convey movement and emotions. *Prerequisite: Grade of "C" or better in GDT 105.*

GDT-144 T-Shirt Design 2-1-2

This course focuses on creating color concepts for color processing to various mediums. *Prerequisite: Grade of "C" or better in GDT 105.*

GDT-160 Digital Photography 4-2-4

This course provides an introduction to the tools, procedures, concepts and application of photographic imaging. Students use digital cameras to make images to meet the requirements of a series of assignments designed to develop specific skills, competencies and points of view and to stimulate the students' creative capacities for communication, basic design and composition theory, image preparation and enhancement for publication.

GDT-165 Image Editing 4-2-4

This course is a study and exploration of technical methods and manipulation of imagery to create visual solutions to communicate and support advertising goals. The student will apply principles of advertising to create holistic solutions, focusing on visual components for advertising scenarios. *Prerequisites: Grade of "C" or better in GDT 105 and GDT 115.*

GDT-218 Graphic Production 4-2-4

Through theory and application students learn how publication papers and inks are made and how to effectively incorporate them into graphic design. This course provides a foundation for selection of paper grades and their uses. *Prerequisites: Grade of "C" or better in GDT 105, GDT 115, GDT 122 and GDT 165. GDT 165 can be taken concurrently.*

GDT-222 Production Practicum 4-X-X

This course is designed to broaden students overall print production experience and knowledge beyond what can be learned in the classroom. *Prerequisite: GDT 218 or concurrent enrollment.*

GDT-230 Graphic Design II 4-2-4

Design methodology, problem-solving, the relationship of visual form to meaning, type/image relationships are key aspects of this course. The student will explore and apply the rules of graphic design for various print publications. *Prerequisites: Grade of "C" or better in GDT 105, GDT 115, GDT 122, GDT 125 and GDT 165.*

GDT-248 Publication Design 4-2-4

The focus of this course is the imposition, creating, preflighting and releasing designs for publication. Labs provide industry standard software for hands-on application. *Prerequisite: Grade of "C" or better in GDT 105, GDT 115, GDT 122, GDT 165.*

GDT-250 Web Page Design 4-2-4

This course explores the process of planning, designing and building a professional web site. Topics included pre-production planning, creating detailed site maps, design plans and web site creation. *Prerequisites: Grade of "C" or better in GDT 105, GDT 115 and GDT 165.*

GDT-255 Motion Graphic Design 4-2-4

This course develops the basic skills and processes of creating motion graphics necessary to produce titles and 2-D animation. It combines animation; special effects, images, video and text logos. Students learn and experience story telling and animation for current venues. *Prerequisites: Grade of "C" or better in GDT 105, GDT 115 and GDT 125.*

GDT-275 Portfolio Design and Professional Practices 2-1-2

Developing and choosing the right pieces to include in the portfolio and presenting art work are crucial skills for a Graphic Designer. In this course, the student will learn to set career goals, write a creative resume, select and prepare pieces for a portfolio, develop self-promotional materials and

practice communication skills to prepare for the job interview. *Prerequisites: Grade of "C" or better in GDT 160 and GDT 230, GDT 248, GDT250, GDT 255 or concurrent enrollment.*

GDT-290 Co-Operative Ed/Intern Variable 1-3

This course entails supervised work experience in the major field, which provides the opportunity to make practical application of the knowledge and skills attained through coursework. An individualized instructional management plan will determine goals to be accomplished. Seminars may also be required. *Prerequisites: Completion of 30 credit hours and 2.0 GPA, or advisor's approval. Please see the Department Chair of the specific program area for application.*

(GRM) GERMAN

GRM-101 Beginning German I 3-3-0

This course provides an introduction to pronunciation, syntax, vocabulary and speech patterns through aural-oral practice of the German language. The course is conducted in German as far as is practical.

GRM-102 Beginning German II 3-3-0

This course presents the essentials of German grammar through aural practice, reading and writing, with the emphasis on learning to use German in a variety of situations for a specific purpose. *Prerequisite: GRM 101.*

(GRY) GEOGRAPHY

GRY-101 World Geography 3-3-0

Students in this course learn the role of geography in the economic, political and social development of each of the regions studied and how the various world regions interact with one another.

GRY-230 World Economic Geography 3-3-0

This course provides students with an in-depth introduction to economic geography. It also examines how people earn a living and how the goods and services they produce are geographically organized. *Prerequisite: Grade of "C" or better in GRY 101.*

(HIS) HEARING INSTRUMENT SCIENCE

HIS-110 Acoustics and Psychoacoustics 3-2-0

This course defines, describes and identifies the physical processes of sound, sound transmission, sound measurement, and sound amplification as related to hearing and hearing instruments. Psychoacoustic principles and methods and their applications to the measurement of a variety of auditory phenomena are also presented. *Prerequisite: Admission to the Hearing Instrument Science Program.*

HIS-120 Anatomy and Physiology of Auditory and Speech Systems 3-2-2

This course provides an understanding of anatomy and physiology of the auditory, vestibular, and speech systems. The role of the auditory system in the reception and perception of sound, and the effects of various pathologic conditions on auditory and vestibular function are presented. *Prerequisite: Admission to the Hearing Instrument Science Program.*

HIS-125 Hearing and Auditory Disorders 3-3-0

This course provides a basic understanding of the otologic conditions affecting hearing. Otologic red flags that require referral to medical physicians and other healthcare specialists are discussed. Students develop a referral protocol for their patients to speech-language pathologists, audiologists, and otolaryngologists. *Prerequisite: Grade of "C" or better in all first semester HIS courses.*

HIS

Credit Hours-Lecture-Lab

X=Variable

HIS-130 Introduction to Audiometry 3-3-0

This course introduces the theory and practice of auditory assessment through the use of patient history information, otoscopy, and audiometry. Calibration requirements and otologic considerations and understanding of infection control are also covered. *Prerequisite: Admission to the Hearing Instrument Science Program.*

HIS-140 Introduction to Hearing Instrument Components 3-2-2

This course covers the physical and the acoustic characteristics of hearing instruments. Hearing aid test standards and required measurements of hearing aid performance, types of acoustic couplers and effects of coupler modifications in transferring sound to the human ear are also covered. *Prerequisite: Admission to the Hearing Instrument Science Program.*

HIS-150 Hearing Instrument Fitting Methods 3-3-0

This course presents various formulae and protocols to create more effective treatment outcomes with hearing impaired patients. Patient post fitting follow-up to increase compliance with treatment recommendations will also be described. *Prerequisite: Grade of "C" or better in all first semester HIS courses.*

HIS-160 Hearing Healthcare Legal Responsibilities and Ethics 2-2-0

This course discusses the role and responsibility of each member of the hearing healthcare team. Emphasis is placed on the professional services provided by Licensed Hearing Instrument Dispensers. Other topics include the requirements for state licensure, and opportunities for employment. Ethical issues and legal responsibilities of the Hearing Instrument Specialist and the agencies and laws concerning the hearing handicapped and the hearing aid industry are presented. *Prerequisite: Grade of "C" or better in all first semester HIS courses.*

HIS-170 Clinical Practicum I 1-0-0-3

This course provides students with an opportunity to observe and gain practical experience in assessment, fitting, and troubleshooting in a hearing instrument practitioner's office. Students perform duties under the supervision of a licensed hearing instrument specialist or other appropriate hearing professional. *Prerequisite: Grade of "C" or better in all first semester HIS courses.*

HIS-230 Advanced Audiometry 3-2-2

This course continues to develop an understanding of the theory and practice of auditory assessment. Rationales for application of self assessment inventories in hearing healthcare are covered. Students practice and demonstrate competency in masking and gain an understanding of other testing methods used in the hearing healthcare field including tympanometry, otoacoustic emission testing, and other electro-physiological testing. *Prerequisite: Grade of "C" or better in all previous HIS courses.*

HIS-240 Compression and Digital Features of Hearing Instruments 3-2-2

This course covers advanced skills necessary to prescribe hearing instrument devices to match individual patient requirements. Concepts that are covered include binaural versus monaural fittings, types of compression and digital algorithms, techniques for troubleshooting hearing aid problems from initial adjustment to amplification through long term care and maintenance. *Prerequisite: Grade of "C" or better in all previous HIS courses.*

HIS-250 Real Ear Measurements 3-2-2

This course provides a comprehensive review of validation measurements using real ear methodology. This course defines, describes and identifies the functional uses of different types of earmolds, shells and assistive listening devices (ALDs). Students practice taking impressions and modifying earmolds and shells for which they've made impressions. Students demonstrate the correct use of several commonly used ALDs. Strategies to communicate realistic expectations for amplification are presented. *Prerequisite: Grade of "C" or better in all previous HIS courses.*

HIS-260 Hearing Healthcare Management and Marketing 3-3-0

This course presents the skills and competencies necessary for the management of a typical hearing healthcare office's business operations. Essential elements of an effective marketing campaign for a successful hearing instrument office are discussed. Students practice and demonstrate skills necessary to increase patient compliance with purchase recommendations. *Prerequisite: Grade of "C" or better in all previous HIS courses.*

HIS–HIT

Credit Hours-Lecture-Lab
X=Variable

HIS-270 Clinical Practicum II 3-0-0-9

This course provides students with continuing practice in assessing hearing impaired adults and children along with the selection, fitting, and troubleshooting of hearing instruments in a hearing professional's clinic and office. Students assume increasing responsibility in the assessment and care of clients under the supervision of a hearing instrument specialist or other hearing professional. *Prerequisite: Grade of "C" or better in all previous HIS courses.*

HIS-280 Clinical Practicum III 3-0-0-9

In this course students practice all skills associated with the provision of hearing healthcare services from the first patient contact to the final hearing instrument checkup under the supervision of a hearing instrument specialist or other hearing healthcare professional. *Prerequisite: Grade of "C" or better in all previous HIS courses.*

(HIT) HEALTH INFORMATION TECHNOLOGY**HIT-110 Introduction to Health Information Technology 3-3-0**

This course provides an introduction to health data management and healthcare delivery in the acute care setting. Focus will be on the health data structure, content, and standards, in conjunction with the healthcare information requirements and standards. Topics will include type and content of the health record, documentation requirements, structure and use of health information, health record data collection tools, data sources, data storage and retrieval, and healthcare data sets. Emphasis will be on data quality and integrity. *Prerequisite: Grade of "NC" or better in RDG 050, or satisfactory score on the Reading placement assessment.*

HIT-120 Medical Coding I 4-3-1

This course provides an introduction to the historical development of medical coding and current clinical classification systems. Focus will be on ICD-10-CM/PCS and the role of medical coding in billing, reimbursement, and research. Topics will include concepts, principles, nomenclature, and application of the ICD-10-CM/PCS classification systems, as well as the coding guidelines and conventions. Emphasis will be on the accurate assignment of codes with the ICD-10-CM diagnosis and ICD-10-PCS inpatient procedure classification systems. *Prerequisite: Grade of "C" or better in HIT 110, HIT 191, BCS 115 and CIS 101.*

HIT-191 Medical Terminology 3-3-0

This course provides an introduction to basic word structure in medical terminology using a body systems approach. Focus will be on word roots, prefixes, suffixes, and combining forms. Topics will include conventional pathology, pharmacology, diagnostic and therapeutic procedures, and abbreviations related to each body system, along with an examination of root operations and approaches associated with the ICD-10-CM/PCS clinical classification systems. Emphasis will be on word building, pronunciation, spelling, and medical terminology commonly used in health record documentation. *Prerequisite: Grade of "NC" or better in RDG 050 or satisfactory score on the Reading placement assessment.*

HIT-200 Comparative Health Records & Reimbursement Systems 3-3-0

This course is an inspection of non-acute healthcare settings with the United States healthcare delivery system. Focus will be on hospital-based and freestanding ambulatory care facilities, behavioral health facilities, long-term care facilities, rehabilitation facilities, home health care, and hospice. Topics will include the organizational structures, accreditation and licensing requirements, documentation requirements, and the financing of healthcare services, including the influence of managed care. Emphasis will be on various payment and reimbursement methodologies and data sets, as well as the responsibilities of the health information professional. *Prerequisite: Grade of "C" or better in HIT 220, HIT 230, CIS 105 and MTH 105 or higher.*

HIT-201 Healthcare Quality Management 3-3-0

This course is a survey of the principles of quality management and performance improvement in healthcare. Focus will be on continuous quality improvement, utilization management, case management, and risk management in healthcare. Topics will include certification, licensing, and accreditation of healthcare organizations, compilation, presentation, and analysis of healthcare data using graphic tools, screening criteria, quality initiatives, and patient safety implementation. Emphasis will be on abstracting and analysis skills, along with reporting clinical data skills. *Prerequisite: Grade of "C" or better in HIT 110 and CIS 105.*

HIT

Credit Hours-Lecture-Lab
X=Variable

HIT-215 Health Information Systems 3-3-0

This course explores information systems in healthcare. Focus will be on the role, evolution, security, and selection of appropriate communication technologies and software applications. Topics will include database management, systems development life cycle, telecommunications, networks, exchange and compatibility standards, personal health records, and the electronic health record, along with an in depth examination of current legislation, and meaningful use. Emphasis will be on accurate data collection, storage, analysis, and reporting using electronic health record software. *Prerequisite: Grade of "C" or better in HIT 110 and CIS 105.*

HIT-220 Medical Coding II 4-3-1

This course is a continuation of HIT 120 with an emphasis on advanced coding theory. Focus will be on ICD-10-CM/PCS and the role of medical coding in inpatient billing and reimbursement. Topics will include the sequencing of codes, validating code assignments, and resolving discrepancies between coded data and documentation. Emphasis will be on the quality of specific coding, MS-DRG reimbursement methodology, including coding compliance with federal reimbursement and reporting requirements. *Prerequisites: Grade of "C" or better in HIT 120 and BCS 210.*

HIT-230 Medical Coding III 4-3-1

This course provides an introduction to the latest versions of Current Procedural Terminology (CPT) and Healthcare Common Procedure Coding System (HCPCS) Level II. Focus will be on the role of procedure, service, and supply codes in billing and reimbursement, as well as the process and management of the revenue cycle of health insurance claims. Topics will include concepts, principles, nomenclature, and application of the CPT/HCPCS Level II classification systems. Emphasis will be on locating, applying, and understanding the reporting of medical services and procedures performed by physicians and outpatient facilities according to CPT/HCPCS and federal regulatory guidelines. *Prerequisites: Grade of "C" or better in HIT 120 and BCS 210.*

HIT-260 Legal Aspects of Healthcare 3-3-0

This course is an overview of legal and ethical issues affecting the healthcare industry, healthcare providers, and health information management professionals. Focus is on federal regulations, state laws, professional practice and ethical standards. Topics will include medical staff credentialing, tort law, judicial procedure, negligence and medical malpractice, corporate liability, contracts, access and disclosure of personal health information, informed consent, patient rights, and ethics. Emphasis will be on knowledge-based research skills and the procedures for safeguarding the privacy and confidentiality of health information. *Prerequisites: Grade of "C" or better in HIT 110 and CIS 105.*

HIT-270 Healthcare Statistics 3-3-0

This course is a study of the basic descriptive, institutional, and clinical statistics in healthcare. Focus will be on transforming data into meaningful information for use in clinical and financial decision making. Topics will include commonly computed rates and percentages, clinical indices, databases and registries, vital statistics, and knowledge-based research techniques. Emphasis will be on data selection and interpretation skills, together with presentation skills. *Prerequisite: Grade of "C" or better in CIS 105, HIT 110 and MTH 105 or higher.*

HIT-280 Organization and Supervision in Healthcare 3-3-0

This course is an examination of the principles of organization of a Health Information Management Department and the supervision of human resources. Focus will be on the application of the management functions of planning, organizing, directing, and controlling. Topics will include policies and procedures, budgets, organization charts, job descriptions, performance standards, orientation and training programs, teams and committees, motivation techniques, performance evaluations, productivity and workflow monitors, and labor regulations. Emphasis will be on critical thinking skills, as well as communication and interpersonal skills. *Prerequisite: Grade of "C" or better in HIT 120, HIT 215, HIT 260, HIT 270 and grade of "C" or better in BUS 140 or ENG 150.*

HIT-290 Professional Practice Experience 3-0-0

This course facilitates supervised field-based learning in affiliate healthcare and healthcare-related agencies. It is designed to provide the student with an opportunity to integrate classroom and clinical experience within the Health Information Management Department and other associated departments. Students are expected to complete a defined number of hours of nonpaid practical experience at the designated practice site. Students are responsible for transportation and other expenses related to this course. Students are required to pass a comprehensive program exit examination. *Prerequisites: Grade of "C" or better in all first, second, third and fourth semester HIT courses, grade of "C" or better or currently enrolled in HIT 200, HIT 201, HIT 280 with a minimum cumulative GPA of 2.50 and permission of program director.*

HLT–HON–HRA

Credit Hours-Lecture-Lab

X=Variable

(HLT) HEALTH & WELLNESS**HLT-100 Introduction to Health Professions****1-1-0**

This course provides an exploration of various health professions. This course covers strategies for success in a health profession including career planning, self-assessment and prerequisites for admission to health care career programs. Cultural diversity, patient confidentiality, medical ethics, legal issues and professionalism are discussed.

HLT-101 Lifetime Wellness**2-2-0**

This course is designed to encourage students to make intelligent decisions concerning overall wellness through fitness. This course will teach students the principles of wellness, fitness, nutrition, weight control and community health issues.

(HON) HONORS PROGRAM**HON-101 Honors Seminar****3-3-0**

The Honors Seminar engages a community of learners in creative and critical thinking and emphasizes analytical and communication skills as essential components to the course. Such a community of learners are supportive, inquisitive, active and service-oriented. This course provides an intellectual and interdisciplinary exchange between students and faculty. The Honors Seminar exposes the student to the "life of the mind" that characterizes the OTC Honors Program. *Prerequisite: Admission to the Honors Program.*

(HRA) HEATING, REFRIGERATION AND A/C**HRA-102 Basic Refrigeration Theory and Application****4-2-4**

This introductory course provides students through lecture and lab the basic knowledge and skills required to comprehend the refrigeration cycle and service the refrigeration system.

HRA-103 Electricity for Heating, Refrigeration and A/C**4-2-4**

This is a lecture/laboratory course focused on AC electrical theory, troubleshooting and schematic reading as applied to refrigeration and air conditioning systems.

HRA-125 Refrigerants and Refrigerant Handling**4-2-4**

Note: Course only offered in the spring semester. This course offers Lecture/Lab experiences that familiarize the students with the characteristics of the most commonly used refrigerants and retro-fitting CFC systems. Refrigerant recovery and evacuation procedures are emphasized and practiced during this course. The course includes administration of the EPA Exam. *Prerequisite: HRA 102.*

HRA-135 Refrigeration Motors and Controls**4-2-4**

Note: Course only offered in the spring semester. This course offers Lecture/Lab experiences that familiarize the students with the characteristics of electrical controls and motors in refrigeration, heating and air conditioning systems. The students will learn and wire electrical circuits that are commonly used in refrigeration, heating and air conditioning. Students will learn the fundamentals of electronic control boards used on central air conditioners. *Prerequisite: HRA 103.*

HRA-180 Air Distribution Systems**2-1-2**

Note: Course offered in the spring semester. This course offers the knowledge & skill necessary to design, size and fabricate duct systems used in heating and air conditioning. Emphasis will also be given to air quality management and humidification.

HRA-245 Commercial Refrigeration Systems**4-2-4**

Note: Course only offered in the fall semester. This course offers lecture/laboratory experiences that provide the student with knowledge of commercial refrigeration systems. Refrigeration & electrical knowledge that has been gained from previous courses will be applied specifically to commercial applications. The student will have the opportunity to work on varied types of commercial equipment. Skills that are needed to troubleshoot a variety of commercial equipment will be acquired. *Prerequisite: HRA 102, HRA 103.*

HRA–HSC

Credit Hours-Lecture-Lab

X=Variable

HRA-250 Advanced Commercial Refrigeration 4-2-4

Note: Course only offered in the spring semester. This is a lecture/laboratory course that will allow the student to understand the operation of larger commercial refrigeration systems that are used in wholesale, warehouses and industrial settings. Refrigeration and electrical knowledge that has previously been gained will be applied to understand the unique refrigeration components used on these systems. Skills and knowledge needed to size equipment and refrigerant lines will be covered in this course. *Prerequisites: HRA 102, HRA 103.*

HRA-265 Residential Heating and Air Conditioning 4-2-4

Note: Course only offered in the fall semester. This course offers lecture/laboratory experiences that provide the student with the knowledge and skills needed to install and troubleshoot residential air conditioners and furnaces. *Prerequisite: HRA 102, HRA 103.*

HRA-270 Advanced Heating and Air Conditioning 4-2-4

Note: Course only offered in the spring semester. This course offers lecture/lab experiences that provide the students additional opportunities to apply heating and air conditioning knowledge acquired in previous courses or from actual experience. Topics are oriented toward applications of specialized systems such as heat pumps, hydronics and packaged systems. *Prerequisites: HRA 102, HRA 103.*

HRA-280 Boilers and Chillers 4-2-4

Note: Course only offered in the fall semester. This is a lecture/laboratory course that will allow the student to understand the operation of boilers and chillers that are used in institutions or industrial settings. Refrigeration and electrical knowledge that has previously been gained will be applied to understand the unique components used on these systems. *Prerequisites: HRA 102, HRA 103.*

HRA-281 Heating, Refrigeration and A/C Capstone Assessment 2-0-0

Note: Course only offered in the spring semester. This comprehensive course, using concepts and skills learned from previous HRA courses, will be used to evaluate the students' knowledge and skills in HVAC. The students will acquire an HVAC competency certification during this course to increase their employment opportunities. Emphasis will be placed on troubleshooting different types of HVAC equipment through the semester. *Prerequisites: HRA 102, HRA 103, HRA 125, HRA 135, HRA 245, HRA 265 and co-requisites HRA 250, HRA 270.*

HRA-290 Co-Operative Education/Internship Variable 1-3

This course encompasses a supervised work experience in the major field which provides the student with the opportunity to make practical application of the knowledge and skills attained through coursework. An individualized instructional management plan will determine goals to be accomplished. Seminars may also be required. *Prerequisites: Completion of 30 credit hours and 2.0 GPA; or advisor's approval. Please see the Department Chair of the specific program area for application.*

(HSC) HEALTH SCIENCES**HSC-100 Service Learning in Healthcare 1-1-0**

Students will broaden their educational experiences by being actively involved in the following student organization: SkillsUSA. In addition to meeting once a week as a class, students will also be required to attend the regularly scheduled meetings of their student organization. *Prerequisites: Admission into the first year Health Sciences program and high school GPA of 2.0 or above.*

HSC-190 Co-Operative Education/Internship/ Related Elective Variable 1-3

This course encompasses a supervised work experience in the major field, which provides the opportunity to make practical application of the knowledge and skills attained through coursework. An individualized instructional management plan will determine goals to be accomplished. Seminars may also be required. Please see the Division Chair of specific program area for application. *Prerequisites: Admission into the second year Health Sciences program and high school GPA of 2.5 or above, or advisor's approval.*

(HSM) HOSPITALITY MANAGEMENT**HSM-101 Introduction to the Hospitality Industry 3-3-0**

This course provides a global look at hospitality from a management viewpoint with career opportunities in hospitality lodging, food service and related businesses such as clubs, casinos and spas. The course pays special attention to current management issues, including diversity, retention, harassment, leadership and ethics.

HSM-111 Housekeeping and Security Management 3-1-4

This course presents a systematic approach to managing housekeeping and security operations in the hospitality industry. This course explains the issues surrounding the need for individualized security programs, examines a wide variety of security and safety equipment and procedures, discusses guest protection and internal security for asset protection and outlines OSHA regulations that apply to lodging properties. It also discusses the role of housekeeping in loss prevention. *Prerequisite: HSM 115 or concurrent enrollment.*

HSM-115 Safety and Sanitation 3-3-0

Proper safety and sanitation practice directly impacts business operations and is an integral part of providing a quality guest experience. This required course provides students with the knowledge of proper safety and sanitation procedures required by state and local regulatory agencies in foodservice facilities. The course uses the ServSafe Certification curriculum from the National Restaurant Association which is an industry recognized certification in the foodservice industry.

HSM-125 Purchasing and Product Identification 3-3-0

Purchasing and procurement is an integral part of the successful operation of businesses in the hospitality industry. Understanding the selection and procurement process is key to controlling costs and maximizing profits. Topics covered in this course will include: channels of distribution and forces effecting distribution systems, proper receiving procedures and storage management. Individual business considerations for quantity purchased, price paid, payment terms and supplier selection will also be explored. Individual product categories will be discussed based on the intended use, receiving, storage and issuance of products and other management considerations.

HSM-215 Dining Room Management 4-1-6

The Dining Room Management course is the focus of our departmental on campus restaurant. Students are charged with the task of managing the customer experience through exceptional service and food quality. Students will learn to work in front-of-the-house hourly position; while being responsible for the overall management of the operation. Students are accountable for increasing sales through reservation management, marketing and customer service; while controlling costs to maximize profits. Please note: Students participating in lab courses should be prepared to stand for long periods of time on a hard surface and must be able to lift and carry up to 30 pounds. *Prerequisites: HSM 125 and grade of "C" or better in HSM 101 and CUL 101.*

HSM-225 Marketing in the Hospitality Industry 3-3-0

This course is designed to give students an understanding of the specific marketing needs of the hospitality industry. Students will analyze the needs of the consumer, study the segmentation of identified markets and select the best marketing tools to reach individual consumers. Students will further learn how to apply key marketing methodologies through research, sales, customer service, advertising, public relations, promotions, electronic marketing, packaging, rates, pricing strategies and revenue maximization. *Prerequisite: Grade of "C" or better in HSM 101.*

HSM-233 Front Office Procedures 3-3-0

This course provides a step by step approach of front office procedures. The objectives of the course ensure an understanding of the importance of front office interactions in each hotel department. The course also examines the various elements of effective front office management, paying particular attention to the planning and evaluation of front office operations. *Prerequisites: Grade of "C" or better in HSM 101, MTH 105 or higher.*

HSM-248 Bar and Beverage Management 3-3-0

This course is designed to provide students with the practical knowledge needed to responsibly manage a profitable bar or beverage operation. Course work will involve planning for business profitability, menu design, bar layout and equipment, hiring and staffing, budgeting, purchasing and an in-depth look at responsible alcohol service. *Prerequisites: Grade of "C" or better in HSM 101.*

HSM–HST

Credit Hours-Lecture-Lab

X=Variable

HSM-251 Menu Design and Food Service Management 3-3-0

Professionals in the industry feel that many, if not all aspects of a restaurant operation success is determined by the design, management and analysis of the menu. This course is dedicated to the understanding of proper design of the menu as the central influence of this success for a restaurant. This course focuses on various aspects of this design to include costing methods, pricing strategies, physical design of the menu, service styles, production of the menu, forecasting, purchasing and the marketing of the menu. *Prerequisites: HSM 125 and grade of "C" or better in HSM 101 and CUL 101.*

HSM-255 Accounting for the Hospitality Industry 3-3-0

This course is designed to give students a basic understanding of accounting and its application in day -today business operations. Students will learn basic bookkeeping principles and proper documentation of business transactions, types of business ownership, report generation and the use of this information in making management decisions. Students will learn to read and analyze financial statements and study the planning, preparation and implementation of a budget in business operations. *Prerequisites: Grade of "C" or better in HSM 101 and MTH 105 or higher.*

HSM-270 Supervisory Management 3-3-0

This course is designed to develop a basic understanding of the principles of management and the application of those principles in managing the resources of a lodging or foodservice operation. Study for this course will outline the framework for supervision, supervisory responsibilities, tools used in supervision and developing effectiveness as a supervisor. Specific topics covered including: effective communications, recruitment and selection procedures, orientation and training, managing productivity and controlling labor costs, evaluating and coaching, discipline, motivation through leadership, team building, conflict management and time management. *Prerequisites: Grade of "C" or better in HSM 101*

HSM-276 Catering and Event Management 3-3-0

Catering and events is one of the fastest growing segments of the hospitality industry. Successful operators must need not only culinary expertise, but also business skills. This class explores the art of personal sales in delivering the ultimate guest experience through catering functions and events. Topics covered will include: marketing and sales, pricing for profit, event planning and management, menu design, decorative elements, site selection and inspection and contract considerations. Students receive instruction and practice in the basics of catering and banquet operations both on-premise and off-premise. This course covers menu making and food presentation, contract writing, function set-up and supervision. Students learn how to successfully balance a catering operation that will both satisfy their customers and attain a profitable bottom line. *Prerequisite: Grade of "C" or better in HSM 101, HSM 125 and HSM 251.*

HSM-279 Convention Management and Service 3-3-0

This course defines the scope and segmentation of the convention and group business market, describes marketing and sales strategies to attract markets with specific needs, and explains techniques to meet those needs as part of meeting and convention service. *Prerequisites: HSM 101, HSM 115 and HSM 225.*

HSM-290 Culinary Arts/Hospitality Management Internship 3-X-0

This course encompasses a supervised work experience in the major field which provides the opportunity to make practical application of the knowledge and skills attained through coursework. An individualized instructional management plan will determine goals to be accomplished. Seminars may also be required. This course will serve as the Capstone course for Hospitality majors. Students must receive a Grade of "C" or better to pass the Capstone exam. Please see the department chair of the specific program area for application. *Prerequisites: Completion of 30 credit hours and 2.0 GPA or advisor's approval.*

(HST) HISTORY

HST-105 World History I 3-3-0

This course is a survey of human societies throughout the world from the first humans through the early Renaissance. Students will study the interaction of geography and technology with human societies, the impact of diverse religions, beliefs and cultures, the transformation of economic systems, and the formation of governments, states and empires.

HST–HUM–IMT

Credit Hours-Lecture-Lab

X=Variable

HST-106 World History II 3-3-0

This course is a survey of the increasing interconnection of human societies throughout the world from the late Renaissance through the 21st century. Students will study the changing worldwide impact of religions, science and technology, theories and ideologies in shaping societies, economies, nations and empires, global conflicts and connections.

HST-120 U.S. History I: to 1865 3-3-0

This course is a survey of the history of the United States from pre-Columbian societies through the Civil War, including formative political, social, economic and cultural developments. It also introduces students to history as an academic discipline and requires analysis, synthesis and evaluation of primary and secondary materials in reading, discussion and writing. Students taking both HST 120 and HST 130 satisfy the Missouri state law requiring instruction in the United States and Missouri Constitutions.

HST-130 U.S. History II: 1865 to the Present 3-3-0

This course is a survey of the history of the United States from Reconstruction to the present, covering the political, economic, social and cultural developments that have shaped modern America. It introduces students to history as an academic discipline and requires analysis, synthesis and evaluation of primary and secondary materials in reading, discussion and writing. Students taking both HST 120 and HST 130 will satisfy the Missouri state law requiring instruction in the United States and Missouri Constitutions.

HST-230 Twentieth Century America 3-3-0

This course is for the student who desires a comprehensive view of contemporary America. Emphasis is on the Progressive Era, World War I, the Twenties, the Depression Era, United States and the World 1930-1941, World War II, the Cold War, the Korean War and the Vietnam War to the present. *Prerequisite: HST 105 or HST 106 or HST 120 or HST 130.*

(HUM) HUMANITIES**HUM-101 Introduction to the Humanities 3-3-0**

This course provides an introduction to the Humanities, emphasizing the major periods, persons, stories and works that constitute Western Culture. Visual arts, music, literature, theatre and architecture from Egypt and Mesopotamia, Greece, Rome, The Middle Ages, the Renaissance and modern Europe and the Americas form the basis of the course.

HUM-102 World Humanities 3-3-0

World Humanities surveys indigenous, historical, and contemporary visual art and architecture from Africa, Asia, Oceania and the Americas.

(IMT) INDUSTRIAL MAINTENANCE TECHNOLOGY**IMT-120 Industrial Safety 3-3-0**

This course offers experiences that provide the student a solid foundation for continued study of Industrial Maintenance. Topics include a wide variety of safety and regulatory compliance sessions such as: first aid, CPR, electrical safety, and lock-out/tag-out. OSHA and EPA regulations are also covered. Students will also gain an awareness of environmental safety and health issues.

IMT-125 Fluid Power 4-2-4

Note: Course is offered in the fall semester. This course provides fundamental instruction in the theory and application of pneumatics and hydraulics in industrial and institutional setting. Lecture and laboratory topics include circuit diagrams and symbols, OSHA safety including lockout/tagout, power sources, manual control and electrical control of basic hydraulic and pneumatics circuits, understand and identify cylinders, motors, solenoids, pressure switches, proximity switches and photoelectric control circuits.

IMT

Credit Hours-Lecture-Lab
X=Variable

IMT-130 Industrial Electricity I 4-2-4

Note: Course is offered in the fall semester. This course will provide fundamental instruction in the theory and application of electricity in industrial and institutional settings. Lecture and laboratory instruction will focus on renewable and alternative sources of energy, electrical formulas, symbols and terminology, use of basic test equipment and basic application of electrical theory, industrial and commercial circuits, AC and DC theory and application, industrial high voltage application and industrial code requirements. Basic math skills are strongly recommended for successful completion of this course.

IMT-137 Alternative and Renewable Energy for Maintenance Technicians 4-2-4

This course is designed to educate industrial maintenance technicians in the various forms of alternative and renewable energy including how to maintain and troubleshoot these systems. Emphasis is placed on wind and solar power but all types of alternative and renewable energy sources will be considered including bioenergy, hydroelectricity, tidal power, wave energy and geothermal energy. Laboratory work concentrates on building and operating photovoltaic, wind energy and passive solar systems, then monitoring their performance.

IMT-140 Industrial Electricity II 4-2-4

Note: Course is offered in the spring semester. This course provides fundamental instruction in the theory and application of electricity in industrial and institutional settings. Lecture topics and laboratory activities focus on electrical formulas, industrial and commercial circuits, AC and DC theory and application, industrial high voltage application, industrial code requirements, and implementation of advanced alternative and renewable energy concepts. *Prerequisite: IMT 130 or IMT 283.*

IMT-170 Industrial Motors and Controls 4-2-4

Note: Course is offered in the spring semester. This lecture/lab course provides comprehensive instruction in the theory and application of single and three phase motors and the related control systems used in industrial environments. The focus of this course is on installing and maintaining electric motors, motor protection and motor control devices/functions. *Prerequisite: IMT 130.*

IMT-190 Manufacturing Processes and Materials 4-2-4

This lecture/lab course provides a study of mechanical, chemical, physical properties and structure of engineering materials with heat treating of ferrous and non ferrous metals, and an investigation of methods used to process these materials.

IMT-200 Mechanical Power Transmission 4-2-4

Note: Course is offered in the fall semester. This lecture/lab course demonstrates the basic operation and maintenance of components in mechanical power transmission systems including: gearboxes, belt/pulleys, conveyors, pumps, compressors, couplings, bearings and blowers.

IMT-225 Programmable Control 4-2-4

Note: Course is offered in the spring semester. This lecture/lab course introduces the basic hardware and programming language of common programmable logic controllers (PLCs) used in industrial process control systems. The student learns the proper syntax of PLC code, basic commands and the functioning of the program cycle. Programs will be written around discreet control elements. Students learn how to use basic programming commands to perform typical industrial processes.

IMT-246 Advanced Programmable Control 4-2-4

Note: Course is offered in the spring semester. This course will emphasize the advanced technologies and concepts of programmable logic controllers while teaching higher level language programming of automated systems under microprocessor control. Operation and wiring of the following industrial sensors is included in this course: optical, inductive, capacitive, encoders, resolvers, ultrasonic, and thermocouples. Digital bit functions, sequencers, PLC Matrix functions, PID control of processes, networking of PLCs are also examined. Use of the PLC for interfacing with robots, computer numerical control (CNC), flexible manufacturing systems (FMS) and computer integrated manufacturing (CIM) is introduced. *Prerequisites: IMT 225 or IMT 283.*

IMT-260 Industrial Systems Maintenance 4-2-4

Students in this course apply knowledge of mechanical, electro-mechanical, electricity, PLC programming, motors, drives, blueprint reading and safety in an industrial work cell setting. Individual and team projects sharpen skills for work cell installation, alignment, maintenance, troubleshooting and disassembly as a series of work orders. *Prerequisite: Completion of 30 hours of program instruction.*

IMT–JRN

Credit Hours-Lecture-Lab

X=Variable

IMT-273 Industrial Robotics**4-2-4**

This course provides an in-depth study of robotics with an emphasis on industrial robotic applications. Topics covered will be safety, components of the robot, various sensors, (EOAT) end of arm tooling, basic operation, programming, and preventative maintenance. Lab experiences will include robot operation, programming, and preventative maintenance.

IMT-280 Robotic Vision**3-2-2**

This course is designed as an entry level course for industrial vision systems. During this course, students will learn the parts of a vision system, how to set up communication paths, the effects of lighting, and common troubleshooting procedures. This course builds on the knowledge gained in the Industrial Robotics course. *Prerequisite: Grade of "C" or better in IMT 273.*

IMT-290 Co-Operative Education/Intern/ Related Elective**Variable 1-3**

This course entails a supervised work experience in the major field, which provides the opportunity to make practical application of the knowledge and skills attained. An individualized instructional management plan determines goals to be accomplished. Seminars may also be required. *Prerequisites: Completion of 30 credit hours of program specific courses and 2.0 GPA and approval of department chair.*

(JRN) JOURNALISM**JRN-160 Introduction to Journalism****3-2-2**

This course provides an introduction to journalistic writing, with an emphasis on the purposes and forms and practice in writing various types of stories. This course provides the opportunity to put objectives into practice while students participate in writing for the school newspaper. *Prerequisite: ENG 101.*

JRN-161 Newspaper Practicum**3-1-4**

This is a course in which students plan, design and produce the school newspaper. Students are able to work in any of the following areas: generating content, conducting interviews, writing and editing articles, taking photographs, creating layout and design or collecting advertisements. *Prerequisite: JRN 160.*

JRN-211 Writing for Today's Media**3-3-0**

This course is a study and practical application of essential journalism skills needed to write for the various media available today. *Prerequisites: Grade of "C" or better in ENG 102 and grade of "C" or better in JRN 160.*

(MFG) MANUFACTURING TECHNOLOGY**MFG-135 Print Reading and Welding Symbols****4-3-2**

This course will teach students how to read the various prints they will encounter in industry. Students will learn how to read machining and welding prints, the various parts of a print, the common views used to convey information, and the weld symbols needed to complete most of the tasks found in industry. The focus of this course is to give the student a solid foundation for producing parts in industry.

MFG-275 Manufacturing Capstone**Variable 3-4**

This course provides the student the opportunity to apply skills, knowledge, and creativity to a variety of manufacturing related problems and scenarios. The specific course outline is tailored to the individual MFG degree student and may require participation in a capstone course from one of the programs that constitute the MFG degree or may involve a directed customized capstone experience. The student must consult with a department chair from one of the MFG programs to tailor the course content to the individual's needs prior to enrolling. *Prerequisite: 30 hours completed or including concurrent enrollment in MFG program specific courses and department chair consultation.*

MFG–MLT

Credit Hours-Lecture-Lab

X=Variable

MFG-290 Co-operative Education/Internship**Variable 1-3**

This course provides supervised work experience in the major field, which provides the opportunity to make practical application of the knowledge and skills attained through coursework. An individualized instructional management plan determines goals to be accomplished. Seminars may also be required. *Prerequisite: 30 hours completed or including concurrent enrollment in MFG program specific courses and department chair consultation.*

(MLT) MEDICAL LABORATORY TECHNICIAN**MLT-100 Introduction to the Medical Laboratory****1-1-0**

This course introduces the field of medical laboratory science, including quality control, bloodborne pathogens, basic laboratory equipment, laboratory settings, accreditation, certification, professionalism, ethics and basic laboratory procedures in chemistry, hematology, immunology, urinalysis and microbiology. *Prerequisites: BCS 145 and BCS 146 or concurrent enrollment in BCS 146, or BCS 165 and 205.*

MLT-200 Hematology**4-3-2**

This course is a study of the blood that includes the function, identification and testing of cellular components. Skills are developed in the analysis of hemoglobin, hematocrit, blood cell counts and blood cell morphology. The mechanisms of coagulation are also explored and the function and analysis of platelets and proteins in blood coagulation are related to changes in normal and disease states. *Prerequisite: Grade of "C" or better in all of the previous Medical Laboratory Technician (MLT) courses.*

MLT-205 Clinical Immunology**2-2-0**

This course relates the biology of the immune response to the clinical manifestations of selected diseases. Course content includes antigen-antibody reactions, immunoglobulin structures and functions, and lymphocyte interactions. The clinical significance and laboratory procedures related to inflammatory conditions, bacterial and viral pathogens, autoimmune disorders, and immunogenetics will be introduced. *Prerequisite: Grade of "C" or better in all of the previous Medical Laboratory Technician (MLT) courses.*

MLT-210 Clinical Chemistry**4-3-2**

Students develop proficiency at performing and analyzing data on diagnostic procedures generated from clinical chemistry equipment and instrumentation. These proficiencies include knowledge of the appropriate sample, volume needed to execute the testing protocol and ability to recognize normal, therapeutic and critical values. The student studies metabolic pathways evaluated by the array of tests performed in the chemistry department of the clinical laboratory. *Prerequisite: Grade of "C" or better in all of the previous Medical Laboratory Technician (MLT) courses.*

MLT-215 Urinalysis and Body Fluids**2-1-2**

This course presents the normal and abnormal composition of urine and commonly collected body fluids for clinical evaluation. The student is introduced to testing procedures, sources of error, and clinical correlation as they relate to urine and body fluids. *Prerequisite: Grade of "C" or better in all of the previous Medical Laboratory Technician (MLT) courses.*

MLT-220 Immunohematology**4-2-4**

This course covers the principles of immunology and blood banking procedures using the guidelines of the American Association of Blood Banks (AABB). Topics covered include antigen-antibody reactions, immunoglobulin structures and functions, complement interaction, clinically significant blood group systems, antibody detection and identification, immunologic disease of the newborn, compatibility testing and component therapy. *Prerequisite: Grade of "C" or better in all of the previous Medical Laboratory Technician (MLT) courses.*

MLT-230 Clinical Microbiology**4-3-2**

This course is designed to instruct the Medical Laboratory Technician on the proper identification and handling of microorganisms in a clinical setting. The student learns microorganism morphology, growth requirements and speciation. The student works with a variety of specimens and learns the intricacy for optimum isolation and identification on common clinical microorganisms that might be present. *Prerequisite: Grade of "C" or better in all of the previous Medical Laboratory Technician (MLT) courses.*

MLT–MSL–MTH

Credit Hours-Lecture-Lab

X=Variable

MLT-240 Clinical Seminar and Review**2-2-0**

This course covers professional development issues related to clinical laboratory science. Information covered includes resume preparation, job seeking skills, continuing education opportunities, professional ethics and regulatory agencies. The last half of the course includes a comprehensive review of knowledge and competencies required for career entry at the technician level of certification. Using information from the list of objectives for each previous course, components of competencies used for the certification examination are emphasized. A mock certification exam is given. *Prerequisite: Grade of "C" or better in all of the previous Medical Laboratory Technician (MLT) courses.*

MLT-260 Clinical Practicum II**8-0-16**

This course offers supervised clinical practice in the laboratory of cooperating health agencies. The laboratory settings for this course are varied and may include physician's office laboratories, rural hospital laboratories or other specialized laboratory settings. Basic procedures are reviewed and advance methodologies are introduced within each assigned department and affiliate laboratory. *Prerequisites: MLT 200, MLT 210 and MLT 215.*

MLT-270 Clinical Practicum III**8-0-16**

This is a continuing laboratory experience in which students apply the skills and techniques learned in the classroom to the clinical laboratory. *Prerequisites: MLT 220 and MLT 230.*

(MSL) MILITARY SCIENCE**MSL-101 Leadership and Personal Development****3-3-0**

This course introduces students to the personal challenges and competencies that are critical for effective leadership. Students learn how the personal development of life skills such as goal setting, time management, physical fitness, and stress management relate to leadership, officership, and the Army profession. The focus is on developing basic knowledge and comprehension of Army leadership dimensions while gaining a big picture understanding of the ROTC program, its purpose in the Army, and its advantages for the student.

MSL-102 Introduction to Tactical Leadership**3-3-0**

This course is an overview of leadership fundamentals such as setting direction, problem-solving, listening, presenting briefs, providing feedback and using effective writing skills. Students explore dimensions of leadership values, attributes, skills and actions in the context of practical, hands-on and interactive exercises.

MSL-201 Innovative Team Leadership**3-3-0**

This course explores the dimensions of creative and innovative tactical leadership strategies and styles by examining team dynamics and two historical leadership theories that form the basis of the Army leadership framework. Aspects of personal motivation and team building are practiced planning, executing and assessing team exercises and participating in leadership labs. The focus continues to build on developing knowledge of the leadership values and attributes through understanding Army rank, structure, and duties as well as broadening knowledge of land navigation and squad tactics. Case studies will provide a tangible context for learning the Soldier's Creed and Warrior Ethos as they apply in the contemporary operating environment.

(MTH) MATHEMATICS

Prerequisite: In satisfying math course prerequisite requirements, an equivalent course must be a college course appearing on the student's transcript.

Placement: Any student who has completed a college mathematics course within the past two years is not eligible for placement based on the mathematics placement assessment. Course placement will be guided by the previously completed math courses.

MTH-040 Pre-Algebra**3-3-0**

This course is designed to prepare students for a first course in algebra. Topics include addition, subtraction, multiplication and division of whole numbers; integers, fractions, and decimals; percents; perimeter and area; and solve linear equations.

MTH

Credit Hours-Lecture-Lab

X=Variable

MTH-050 Basic Algebra 3-3-0

This course is designed for students who have had no instruction in algebra or who need a review. Students learn to solve linear equations and inequalities; to multiply and factor polynomials; and to graph linear equations. *Prerequisite:* Grade of "NB" or "better in MTH 040 or satisfactory score on the Mathematics Placement Assessment.

MTH-105 Business Math 3-3-0

This course is designed to prepare students to apply mathematics to business situations. Topics include banking, purchasing, pricing, payroll and payroll taxes, interest, mortgages, depreciation, inventory and business statistics. *Prerequisite:* Grade of "NC" or better in MTH 040 or satisfactory score on the Mathematics Placement Assessment.

MTH-110 Intermediate Algebra 3-3-0

This course is an extension of basic algebra and includes factoring, rational expressions, linear equations, quadratic equations, functions, graphs, radicals, complex numbers and applications. *Prerequisite:* Grade of "NB" or better in MTH 050 or satisfactory score on the Mathematics Placement Assessment.

MTH-128 Contemporary Mathematics 3-3-0

This course provides students with a basic survey of mathematics. Topics include problem solving, sets, counting methods, probability, statistics and geometry. *Prerequisite:* Grade of "C" or better in MTH 110 or equivalent or satisfactory score on the Mathematics Placement Assessment.

MTH-130 College Algebra 3-3-0

This course is a standard course in college level algebra. Topics include properties of functions; polynomial, rational, exponential, logarithmic functions and their graphs; and conic sections. *Prerequisite:* Grade of "C" or better in MTH 110 or equivalent or satisfactory score on the Mathematics Placement Assessment.

MTH-131 Trigonometry 3-3-0

This course is a study of trigonometric function and their graphs, identities, equations and applications. Topics include vectors, complex numbers, analytic geometry of the polar plane and solution of right and oblique triangles. *Prerequisite:* Grade of "C" or better in MTH 130 or equivalent OR satisfactory score on the Mathematics Placement Assessment.

MTH-138 Pre-Calculus Mathematics 5-5-0

This course is designed to prepare students for calculus. Topics include polynomial, rational, radical, exponential, logarithmic and trigonometric functions; analytic trigonometry; vectors; sequences and series; the Binomial Theorem; and limits. *Prerequisite:* Grade of "B" or better in MTH 110 or equivalent OR satisfactory score on the Mathematics Placement Assessment.

MTH-140 Analytic Geometry and Calculus I 5-5-0

This is the first course in a three-semester sequence. Topics include an introduction to analytic geometry, limits and continuity, the derivative and differential, the definite integral and applications. *Prerequisite:* Grade of "C" or better in MTH 131 or MTH 138 or equivalent OR satisfactory score on the Mathematics Placement Assessment.

MTH-141 Analytic Geometry and Calculus II 5-5-0

This is the second course in a three-semester sequence. Topics include techniques of formal integration, applications of definite integration, infinite sequences and series, parametrized curves and polar coordinates. *Prerequisite:* Grade of "C" or better in MTH 140.

MTH-210 Statistical Methods 3-3-0

Students study basic concepts of statistics and probability applicable to all disciplines. Topics include distributions, measures of central tendency and dispersion, elementary probability, sampling, estimation of parameters, hypothesis testing, regression and correlation. *Prerequisite:* Grade of "C" or better in MTH 130 or equivalent OR satisfactory score on the Mathematics Placement Assessment.

MTH-215 Algebraic Structures 3-3-0

This course provides an introduction to techniques of mathematical reasoning and patterns of mathematical thought. Topics include logic and methods of proof, set theory, relations and functions, counting and cardinality, permutations, combinations and recursion and algebraic structures.

Prerequisite: Grade of "C" or better in, or concurrent enrollment in, MTH 141 or equivalent OR satisfactory score on the Mathematics Placement Assessment.

MTH-230 Linear Algebra 3-3-0

This course is a study of vector spaces, matrices, linear transformations, determinants, quadratic forms, eigenvalues, eigenvectors, canonical forms and inner-product spaces. Emphasis is placed on rigorous proof and the development of mathematical maturity. *Prerequisite: Grade of "C" or better in MTH 141 or equivalent OR satisfactory score on the Mathematics Placement Assessment.*

MTH-240 Analytic Geometry and Calculus III 3-3-0

This is the third course in a three-semester sequence. Topics include vector-valued functions, solid analytic geometry, partial differentiation, multiple integration and line and surface integrals in vector fields. *Prerequisite: Grade of "C" or better in MTH 141 or equivalent OR satisfactory score on the Mathematics Placement Assessment.*

MTH-241 Differential Equations 3-3-0

This is an introduction to the techniques available for the solution of ordinary differential equations. Topics include first and second order equations, systems of differential equations, Laplace transforms, series solutions, numerical methods and applications. *Prerequisite: Grade of "C" or better in MTH 240 or equivalent OR satisfactory score on the Mathematics Placement Assessment.*

(MTT) MACHINE TOOL TECHNOLOGY

MTT-125 Machine Shop I 4-2-4

Note: Course is offered in the fall semester. This is a fundamental course designed to introduce students to precision machining with emphasis on entry level employment skills.

MTT-135 Computer Numerical Control I 4-2-4

Note: Course is offered in the fall semester. This is a fundamental course designed to introduce students to Computer Numerical Control (CNC)—Mill terminology and programming. Practical laboratory assignments are used extensively.

MTT-145 Computer Aided Manufacturing (Mill) 4-2-4

Note: Course is offered in the spring semester. This is a fundamental course designed to introduce students to Computer Aided Manufacturing (Mill) terminology and programming. Practical laboratory assignments are used extensively.

MTT-155 Machine Tool Processes I 4-2-4

Note: Course is offered in the spring semester. This course is designed to introduce students to concepts of machine tool design and practice. Practical laboratory assignments are explored using jigs, fixtures and dies. *Prerequisites: MTT 125.*

MTT-225 Machine Shop II 4-2-4

This course is designed to introduce students to additional fundamental concepts of machine shop operations and practices beyond those offered in Machine Shop I. Practical laboratory assignments are explored using power saws, engine lathes and milling machines. *Prerequisites: MTT 125 and MTT 155.*

MTT-235 Computer Numerical Control II 4-2-4

This course is designed to introduce students to additional fundamental concepts of Computer Numerical Control (CNC) Lathe terminology and programming beyond those offered in Computer Numerical I. Practical laboratory assignments are used extensively. *Prerequisite: MTT 135.*

MTT-245 Computer Aided Manufacturing II 4-2-4

This course is designed to introduce students to additional fundamental concepts of Computer Aided Manufacturing (Lathe) terminology and programming beyond those offered in Computer Aided Manufacturing I. Practical laboratory assignments are used extensively. *Prerequisite: MTT 145.*

MTT–MUS

Credit Hours-Lecture-Lab

X=Variable

MTT-255 Machine Tool Processes II 4-2-4

This course is designed to introduce students to additional concepts of machine tool design and practice combining manual and CNC applications. Practical laboratory assignments are explored. Students must earn a grade of "C" or better in this course to meet MTT graduation requirements. *Prerequisites: MTT 225, MTT 235 and completion or concurrent enrollment in MTT 245.*

MTT-260 Machine Tool Specialist 32-16-32

This course introduces students to entry level skills and knowledge of machine shop operations and practices. Students are introduced to manual and Computer Numerical Control (CNC) lathe applications, and Computer Aided Manufacturing terminology and programming. Students will read and interpret drawings to manufacture a product.

MTT-290 Co-Operative Education/Internship Variable 1-3

This course entails a supervised work experience in the major field which provides the student with the opportunity to make practical application of the knowledge and skills attained through coursework. An individualized instructional management plan will determine goals to be accomplished. Seminars may also be required. *Prerequisites: Completion of 30 credit hours and 2.0 GPA, or advisor's approval. Please see the department chair of the specific program area for application.*

(MUS) MUSIC

MUS-101 Music of the World 3-3-0

This course explores and practices the music listening skills that enable the student to listen to music of other cultures with understanding and enjoyment. Students will examine what it means to be human through the exploration of various world music. Students will also learn how the element of organized sound distinguishes humans from other species. Additionally, the elements of music, world music history, and the relationship of music and culture will be explored. Students are required to attend at least one live musical performance during the semester culminating in a written review of the performance.

MUS-102 Music Therapy Orientation 2-2-0

Introduction to the current practice, philosophy, and history of Music Therapy. Students will also be introduced to field studies. Students will be required to participate in twelve hours of observational clinical experience.

MUS-105 Western Music Appreciation 3-3-0

Western Music Appreciation explores the development of music from the Medieval Period to the present. Through this class students gain skills to listen and understand different types of classical music. The elements of music, music history and the relation of music and culture are explored through recorded and live performances of music.

MUS-106 Jazz Appreciation 3-3-0

This course is a look at the art form of Jazz and how it relates to the American experience. It is an introduction to basic terminology using the elements of music as well as terminology unique to Jazz. Students will not only learn about the instruments involved in Jazz; but will also develop a vocabulary and ability to listen, understand and discuss Jazz using proper terminology. This class will explore the evolution and transformation of Jazz from the 19th century to the present including social, political and cultural conditions in which this music grew.

MUS-110 Music Fundamentals 3-3-0

Music Fundamentals is a general survey of basic music, including the rudiments of music such as notation, rhythmic understanding and chordal structures. The basic elements of music are taught and explored through the use of a textbook, recordings and live performances. Students are expected to attend musical events during the semester.

MUS-111 Music Fundamentals II 3-3-0

Music Fundamentals II is an application course of basic musical knowledge including the rudiments of music such as notation, rhythmic understanding and chordal structures. The basic elements of music will be reviewed and applied to various genres of music including non-Western music, blues, jazz, movie music and more. Students will be expected to attend musical events during the semester. *Prerequisite: Grade of "C" or better in MUS 110 or score of "C" or better on the Music Placement Exam.*

Credit Hours-Lecture-Lab

X=Variable

MUS-115 Introduction to Songwriting 3-3-0

This seminar-style course provides an introduction to the fundamentals of songwriting through analysis and practice, as well as a survey of songwriting history, contemporary music business and the educational and private uses of the art. As the students develop their skills in recognizing the major components of the craft, they employ these components by composing and performing their own songs.

MUS-120 Music Theory I 2-2-0

This class is an introduction to diatonic harmony for all music majors, including the elements of pitch and rhythm, major and minor scales, major and minor key signatures, functional harmony of all diatonic chords in major and minor keys, voice-leading and part-writing. *Prerequisite:* Grade of "C" or better in MUS 110 or score of "C" or better on the music theory placement exam. Concurrent enrollment in MUS 125 required.

MUS-121 Music Theory II 2-2-0

This course expands on the basic skills learned in Music Theory I. Students continue with diatonic and chromatic harmony as well as voice-leading and part-writing. *Prerequisite:* Grade of "C" or better in MUS 120. Concurrent enrollment in MUS 126 required.

MUS-125 Sight Singing and Ear Training I 1-1-0

This course teaches the fundamentals of reading and performing music, ear training, and sight singing. Basic concepts of notation, rhythm, tonality and harmony are applied to reading and hearing music through performance and dictation of melodies, intervals and triads. *Prerequisite:* Concurrent enrollment in MUS 120 required.

MUS-126 Sight Singing and Ear Training II 1-1-0

Students will continue developing skills begun in Sight Singing I. Through graded exercises and regular practice, the students' musical ear will be developed to hear, notate, and sing given rhythms, melodies and harmonies. *Prerequisites:* Grade of "C" or better in MUS 125. Concurrent enrollment in MUS 121 required.

MUS-130 Piano Class I for Music Majors 1-0-2

This course is an introduction to basic piano skills. No prior knowledge is required. Students are taught coordination skills as well as note reading and rhythm. Emphasis is on the application of basic piano techniques introduced in this course.

MUS-131 Piano Class II 1-0-2

This course is a continuation of the basic piano skills taught in Piano Class I. Students build on previous techniques while learning intermediate skills. Emphasis is on the application of basic piano techniques introduced in this course. *Prerequisite:* Grade of "C" or better in MUS 130.

MUS-132 Piano I for Non-Music Majors 1-0-2

This course is an introduction to basic piano skills. No prior knowledge is required. Students will be taught coordination skills, sight reading, rhythm, and basic theory knowledge. Emphasis will be on learning to play piano solos and duets.

MUS-133 Piano II for Non-Music Majors 1-0-2

This course is a continuation of MUS 132. Functional keyboard skills and music fundamentals will be explored. Students will continue to build their skills performing scales, sightreading and the performance of appropriate piano literature. *Prerequisite:* Grade of "C" or better in MUS 130 and MUS132 or audition is required to enroll in this course.

MUS-134 Voice Class I 1-0-2

This course will give the student proper technical skills to become a better singer. Students will learn various techniques, technical skills and proper pronunciation of foreign languages in musical literature. Vocal exercises and appropriate literature will be used to develop singing technique.

MUS-135 Choir I 1-0-2

A choral ensemble open to any singer from within the college who is dedicated to performing to the highest standards possible. The students practice and perform choral works throughout the semester. Emphasis on vocal technique and performance practice is an integral part of the choral experience. This course may be repeated up to 6 times.

MUS

Credit Hours-Lecture-Lab

X=Variable

MUS-136 Voice Class II 1-0-2

This course is a continuation of the basic vocal techniques taught in Voice Class I. Students will enhance their vocal skills through the application of vocal principles, style and diction. Students will also learn proper pronunciation of foreign languages in musical literature including German and French.

MUS-140 Small Ensemble 1-0-2

Instrumental ensembles may be arranged according to availability and student proficiency each semester to meet the needs of the participating students and the Fine Arts program. Ensembles will explore a higher degree of musicality and experience working as a group resulting in a performance of your instrument. The course will include at least one performance at the end of the semester. Students must be able to read musical notation for their instrument. This course may be repeated up to 6 times. Prerequisite: Audition

MUS-150 Guitar Class I 1-0-2

This course is a beginning guitar group class. Students are taught the fundamentals of guitar technique and performance practices. Appropriate guitar literature is performed as well. Students must provide their own guitar.

MUS-151 Guitar Class II 1-0-2

This course explores intermediate and advanced guitar techniques and repertoire. Intermediate and advanced chord progressions, strumming patterns and repertoire are also taught. *Prerequisite: Grade of "C" or better in MUS 150.*

MUS-155 Classical Guitar Class I 1-0-2

This course is a beginning classical guitar group course. Students are taught the fundamentals of classical guitar technique and performance practices. Appropriate guitar literature is performed as well. Students must provide their own guitar.

MUS-156 Classical Guitar Class II 1-0-2

This course is an advanced Classical guitar group class. This course explores advanced guitar techniques and repertoire. Appropriate guitar literature will be performed as well. Students must provide their own classical guitar. *Prerequisite: Grade of "C" or better in MUS 155.*

MUS-201 Latin-American Music 3-3-0

This course focuses on the interdisciplinary nature of music as a force shaped by society and shaping society, within the context of Latin-American countries. By applying critical thinking, analytical reading, valuing and information management skills, students link Latin-American musics with their territorial history, geography and politics, understanding the multiple processes of acculturation and syncretism of Native aborigines, Africans and Europeans. *Prerequisites: COM 105 and ENG 101.*

MUS-220 Music Theory III 2-2-0

This course is a continuation of harmonic studies including 18th century common-practice harmony, modulation and chords. Theoretical concepts are applied through analyzing musical literature. *Prerequisites: MUS 121 and Grade of "C" or better in MUS 126. Concurrent enrollment in MUS 225.*

MUS-221 Music Theory IV 2-2-0

This course offers advanced chromatic harmony; twentieth-century and contemporary techniques; knowledge of larger forms and an advanced study of chromaticism. *Prerequisites: Grade of "C" or better in MUS 220 and Grade of "C" or better in MUS 225. Concurrent enrollment in MUS 226.*

MUS-225 Sight Singing and Ear Training III 1-1-0

This course explores, through sight singing and notation, more advanced levels of melodic and harmonic dictation in addition to chromatic harmony and modulation. This course includes sight singing and dictation of melodies and rhythms, error detection, modulation to closely related keys, dictation and identification of chromatic harmony. *Prerequisites: Grade of "C" or better in MUS 126. Concurrent enrollment in MUS 220.*

MUS-226 Sight Singing and Ear Training IV 1-1-0

This course consists of sight singing and dictation of more complex melodies and rhythms, error detection, harmonic dictation, diatonic modes and other non-tonal scales and improvisation. *Prerequisites: Grade of "C" or better in MUS 225. Concurrent enrollment in MUS 221.*

MUS–NET

Credit Hours-Lecture-Lab

X=Variable

MUS-230 Piano Class III**1-0-2**

This course is the third of four piano class offerings. Emphasis will be on the application of intermediate piano techniques introduced in this course. *Prerequisite: Grade of "C" or better in MUS 131.*

MUS-231 Piano Class IV**1-0-2**

This course is the final piano class offering. Emphasis will be on the application of advanced piano techniques. Students will explore ensemble, duo and solo playing as well as advanced use of chords and modern harmonization. *Prerequisite: Grade of "C" or better in MUS 230.*

MUS-235 OTC Concert Choir**1-0-3**

Performance choir is a choral ensemble open to any singer from within the college who is dedicated to performing to the highest standards possible and passes the vocal audition. Students practice and perform choral works throughout the semester. Emphasis on vocal technique and performance practice is an integral part of the choral experience. A live performance is mandatory. This course may be repeated up to 6 times. *Prerequisite: Vocal Audition.*

MUS-236 OTC Chamber Singers**1-0-3**

Singers selected from an advanced audition will study chamber choral works. Emphasis on advanced vocal technique and performance practice will be an integral part of the choral experience. One formal concert each semester. Must be enrolled in MUS 235 concurrently. This course may be repeated up to 6 times.

(NET) NETWORKING TECHNOLOGY**NET-100 Introduction to Networking****4-2-4**

Introduction to Networking covers the essentials of hardware, software, and other elements that comprise today's data networking environment. Topics covered include network hardware, topologies, transmission media, operating systems, systems administration, security, and IT standards. Lab activities include basic diagnostic software use, network troubleshooting, and solo and team activities designed to build interpersonal communication skills. This is an introductory course for non-Networking majors, as well as for students who may be considering a career in information technology and would like to know more.

NET-102 Desktop Hardware**4-2-4**

This course helps prepare students to pass both components of the CompTIA A+ certification exam under the current objectives. The following areas are covered in both a lecture and hands-on-lab environment; configuration and upgrading of computer hardware and software, diagnosing and troubleshooting computer malfunctions related to hardware and software, preventive maintenance and printer maintenance fundamentals. In addition, knowledge of command line operation is introduced and practiced.

NET-104 Network Communications and Cabling**4-2-4**

Note: Course only offered in the fall semester. This course targets structured cabling and wireless systems. Students install a network infrastructure composed of fiber, copper, and wireless media. Students document, design and install network cabling in a group environment. At the conclusion of this course, students are able to identify and troubleshoot physical layer problems using appropriate tools and techniques. *Prerequisite: ENG 101 or concurrent enrollment.*

NET-110 Windows Client Server**4-2-4**

This course builds on the knowledge and skills gained in NET-100 and targets the fundamentals of Microsoft Windows network operating systems. Students install and configure Windows network operating systems as domain controllers in a basic network security model. At the conclusion of this course, students are able to create user and group accounts, set up security policies, domain trust relationships and Active Directory Services (ADS) for network resource accessibility and administration. *Prerequisite: Grade of "C" or better in NET 100.*

NET

Credit Hours-Lecture-Lab

X=Variable

NET-112 Linux Operating System**4-2-4**

Note: Course only offered in the spring semester. This course targets the Linux operating system. Students will install the Linux operating system and configure a basic Linux network including a server and workstation. At the conclusion of this course, students will be able to configure user and group accounts and use network resources including applications and printing. *Prerequisite: Grade of "C" or better in NET 100.*

NET-116 Cisco Routing and Switching - Introduction to Networks**4-2-4**

This course introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. It uses the OSI and TCP layered models to examine the nature and roles of protocols and services at the application, network, data link, and physical layers. Principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation. Labs use a "model Internet" to allow students to analyze real data without affecting production networks. Packet Tracer activities help students analyze protocol and network operation and build small networks in a simulated environment. Students build simple LAN topologies by applying basic principles of cabling, performing basic configurations of network devices such as routers and switches, and implementing IP addressing schemes. *Prerequisite: Grade of "C" or better in NET 100 and Grade of "C" or better in TEC 108 or concurrent enrollment.*

NET-202 Information Technology Security**4-2-4**

Note: Course only offered in the fall semester. Information Technology Security is a hands-on course with an emphasis on practical experience to help students develop specialized security skills to advance their careers. The curriculum helps prepare students for entry-level security career opportunities. Course content is aligned with the CompTIA Security+ certification.

NET-205 Network Virtualization and Storage Concepts**4-2-4**

Note: Course only offered in the fall semester. This hands-on course provides students the opportunity to experience virtualization and network storage utilizing the following resources; VMware installation, configuration, and management (ICM) curriculum based on VMware vSphere ESXi and VMware vCenter Server will be used to provide an understanding of the components of enterprise level virtualization methods. EMC Information Storage and Management (ISM) will be used to provide an understanding of the varied components of modern information storage infrastructure, including virtual environments. Students will learn about the architectures, features, and benefits of Intelligent Storage Systems; business continuity solutions such as backup, replication, and archive; the increasingly critical area of information security; and the emerging field of cloud computing. Citrix XenApp Administration will provide students the foundation necessary to effectively centralize and manage applications in the datacenter and instantly deliver them as a service to users anywhere. *Prerequisite: Grade of "C" or better in NET 110 and NET 112.*

NET-206 Cisco CCNA - Routing and Switching Essentials**4-2-4**

This course describes the architecture, components, and operations of routers and switches in a small network. Students learn how to configure a router and a switch for basic functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with RIPv1, RIPv2, single-area and multi-area OSPF, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks. At the successful completion of this course - students will be prepared to obtain the Cisco CCENT Certification. *Prerequisite: Grade of "C" or better in NET 116.*

NET-216 Cisco CCNA - Scaling and Connecting Networks**4-2-4**

This course describes the architecture, components, and operations of routers and switches in a larger and more complex network. Students learn how to configure routers and switches for advanced functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with OSPF, EIGRP, STP, and VTP in both IPv4 and IPv6 networks. Students will also develop the knowledge and skills needed to implement DHCP and DNS operations in a network. This course also discusses the WAN technologies and network services required by converged applications in a complex network. The course enables students to understand the selection criteria of network devices and WAN technologies to meet network requirements. Students learn how to configure and troubleshoot network devices and resolve common issues with data link protocols. Students will also develop the knowledge and skills needed to implement IPSec and virtual private network (VPN) operations in a complex network. *Prerequisites: Grade of "C" or better in NET 206.*

NET–NUR

Credit Hours-Lecture-Lab

X=Variable

NET-245 Home Automation Technology 3-1-4

This course covers home security, audio/home theatre, power and networking. Students receive hands-on experience through their configuration of lab panels for each of these different systems and then test them for proper functionality. Once the panels have been successfully configured, students “integrate” these panels into a single source controller. Students are also able to control and maintain home theatre, gaming, networking, lights/fans and security systems from any laptop or desktop computer. *Prerequisites: NET 100, NET 102.*

NET-260 Advanced Topics 4-0-8

Note: Course only offered in the spring semester. Computers as part of a homogenous network system, including peripherals, network equipment, and software are researched and demonstrated in a laboratory environment. Practical network analysis skills of advanced operating systems and protocols are developed through lecture and assigned projects. Students will integrate multiple network operating systems, services, and protocols into a homogenous network. *Prerequisites: Grade of “C” or better in NET 205.*

NET-290 Co-Operative Education/Internship Variable 1-3

This course entails a supervised work experience in the major field which provides the student with the opportunity to make practical application of the knowledge and skills attained. An individualized instructional management plan will determine goals to be accomplished. Seminars may also be required. *Prerequisite: Completion of 30 credit hours and 2.0 GPA or advisor’s approval. Please see the department chair of the specific program for application.*

NET-291 Computer Clinic Internship Variable 1-3

This course involves supervised work experience in a computer repair facility that performs upgrades, maintenance and repair for customers. While polishing the technical skills learned in the NET program, students develop customer service, scheduling, troubleshooting, grooming, personal interaction and other soft skills necessary to succeed in today’s competitive computer repair field. Seminars may also be required. Please see the department chair of specific program area for application. *Prerequisite: Grade of “C” or better in NET 102, minimum 2.5 GPA and approval of department chair.*

(NUR) NURSING—PRACTICAL NURSING**NUR-101 Personal Vocational Concepts 2-2-0**

This nursing course serves as an introduction to nursing by covering the history of nursing, nursing roles and the health care delivery system. Emphasis is placed on how to be a self-directed learner by assisting the student with testing and comprehension of nursing concepts. Content area includes communication, legal, ethical and professional accountability, appreciation of cultural diversity and health education of the client. The nursing process and the role of the practical nurse in the development of a plan of care are emphasized. *Prerequisite: Admission to the Practical Nursing program.*

NUR-110 Fundamentals of Nursing I 3-7-X

This course introduces the fundamental principles, basic skills and attitudes necessary to care for clients who are experiencing alterations of health throughout the lifespan. This course prepares the student to perform skills in the nursing laboratory and at the beginning levels of nursing in the clinical area. It is the foundation of nursing education. *Prerequisite: Admission to the Practical Nursing program.*

NUR-120 Fundamentals of Nursing II 3-7-X

This course introduces involved principles, skills, and attitudes necessary for clients who are experiencing alterations of health throughout the lifespan. This course prepares the student to perform more intensive skills in the nursing laboratory and at the beginning levels of nursing in the clinical area. *Prerequisite: Grade of “C” or better in NUR 110.*

NUR-205 Adult Medical-Surgical I 7-6-8

This course presents information regarding disorders of the cardiac, respiratory, hematological, musculoskeletal, integument, renal systems and the surgical client. This course provides the student with the opportunity to apply nursing knowledge in the clinical setting. Geriatrics, nutrition, diet therapy, pharmacologic and psychosocial aspects are integrated. *Prerequisites: Grade of “C” or better in previous nursing courses and departmental math competency.*

NUR-OTA

Credit Hours-Lecture-Lab

X=Variable

NUR-215 Adult Medical-Surgical II—Including IV Therapy 7-5-8

This course presents information regarding disorders of the gastrointestinal, endocrine, neurological, sensory, immune, reproductive systems and the client with an IV infusion. This course provides the student with the opportunity to apply nursing knowledge in the clinical setting. Geriatrics, nutrition, diet therapy, pharmacologic and psychosocial aspects are integrated. *Prerequisites: Grade of "C" or better in all of the previous nursing courses and math competency.*

NUR-225 Maternal and Pediatric Nursing 7-4-8

This course involves the study of nursing care of mother and infant during antepartal, intrapartal and postpartal periods. The pathophysiology of common diseases of children is included. Nutrition, pharmacology and the nursing process are integrated throughout the course. The clinical component gives the student opportunity to incorporate the theory into practice. *Prerequisite: Grade of "C" or better in all of the previous nursing courses and departmental math competency.*

NUR-230 Community/Mental Health Nursing 2-2-1

This course covers community nursing and emphasizes wellness, prevention and teaching of good health. It will also lead to a development of knowledge and skills necessary to provide basic mental health nursing care to patients who demonstrate common mental problems. Maintenance and restoration of health is included. Pharmacological aspects are integrated. *Prerequisite: Grade of "C" or better in all of the previous nursing courses.*

NUR-240 Management 1-1-0

This course involves the discussion of various leadership styles and techniques, not only as an individual, but as a team leader. It emphasizes the student's need for a variety of management skills, as the graduate prepares to work with the interdisciplinary needs of patient, family and staff. Guidelines for effective resumes, job interviews and the preparation for the NCLEX comprise the other areas of concern of this course. *Prerequisite: Grade of "C" or better in all of the previous nursing courses.*

(OTA) OCCUPATIONAL THERAPY ASSISTANT

OTA-100 Occupational Therapy Foundations 3-3-0

This course is an introduction to occupational therapy, its history, philosophies, values, and ethics. The occupational therapy process and role delineation of various occupational therapy personnel is explained. Students develop an understanding of professional organizations, practice settings, and the need for professional advocacy. *Prerequisites: BCS 145, BCS 146, COM 100, ENG 101, MTH 110, PLS 101, PSY 130 and admission into the OTA program.*

OTA-105 Perspectives on Health 3-3-0

This course will provide students with an understanding of varying health needs and perspectives including the effects of disease and disability on occupational performance, sociocultural factors affecting occupation, global social issues, and models of health promotion and wellness. Various models of care will be examined including medical, community, education, and social models along with basic regulatory, reimbursement, and documentation guidelines for each. Students will receive an introduction to evidence-based practice in this course. *Prerequisites: BCS 145, BCS 146, COM 100, ENG 101, MTH 110, PLS 101, PSY 130 and admission into the OTA program.*

OTA-110 Dynamics of Human Movement 4-3-2

This course is a study of biomechanical, neurological, and sensory components of human movement as required for life roles. Assessment, treatment and communication skills are learned through extensive hands-on and problem solving activities. *Prerequisite: Admission into the OTA program.*

OTA-120 Therapeutic Media 3-2-2

The OT Practice Framework will be introduced. Various types of therapeutic media, as seen in occupational therapy service settings, will be utilized. Students will have the opportunity to enhance their activity analysis, communication and professional behavior skills. Opportunities to conduct simulated individual and group treatment sessions will be provided. *Prerequisites: BCS 145, BCS 146, COM 100, ENG 101, MTH 110, PLS 101, PSY 130 and admission into the OTA program.*

OTA-130 Principles of Neuroscience**2-2-0**

This course focuses on the principles of neurological development as they relate to the occupational therapy assistant practice. Concepts of neurological structures and function, neurological development, motor learning, reflex development and integration and the impact of illness and disease related to neurological deficits are covered. *Prerequisites: BCS 145, BCS 146, COM 100, ENG 101, MTH 110, PLS 101, PSY 130 and admission into the OTA program.*

OTA-200 Therapeutic Design**3-1-4**

This course focuses on fundamental design and construction techniques for adaptation in areas of occupation. Students will use evidence to justify recommendations for adaptation. Design in the areas of basic splinting, orthotics and prosthetics, assistive technologies, wheelchair seating and positioning, and community mobility will be explored. Students will demonstrate the ability to assess and provide appropriate adaptive interventions through the use of case studies. *Prerequisites: OTA 100, OTA 105, OTA 110, OTA 120, OTA 130, OTA 210, OTA 211, OTA 220, OTA 240 and OTA 250.*

OTA-210 Occupational Therapy in Early Development**4-3-2**

This course is an exploration of the physical, perceptual, cognitive and psychosocial developmental sequence from birth through late adolescence. Normal and abnormal development are introduced along with occupational therapy evaluations and interventions. Family, social and legal issues and support services for this population are explored, as well as the occupational therapy process, role delineation and service provision in pediatric settings. *Prerequisite: OTA 100, OTA 105, OTA 110, OTA 120 and OTA 130.*

OTA-211 Practicum I**1-1-X**

This course encompasses clinical observation in various settings as assigned by instructor. Students are responsible for transportation and expenses related to this course. *Prerequisite: Grade of "C" or better in all of the previous OTA required courses.*

OTA-220 Occupational Therapy in Mental Health**4-3-2**

This course focuses on the psychosocial issues related to the practice of occupational therapy. The relevance of occupation and goal directed activity in mental health is explained. Evaluation and treatment techniques for individuals and groups is practiced. *Prerequisites: OTA 100, OTA 105, OTA 110, OTA 120 and OTA 130.*

OTA-240 Occupational Therapy in Physical Dysfunction**5-3-4**

This course presents the study of physical dysfunction as it relates to occupational therapy in a medical setting. Disease etiology, progression and prognosis as related to occupational therapy practice are studied. Theories of assessments and interventions are demonstrated. Students have the opportunity to utilize various types of adaptive equipment, assistive technology and strategies to adapt, compensate or restore function. *Prerequisites: OTA 100, OTA 105, OTA 110, OTA 120 and OTA 130.*

OTA-241 Practicum II**1-1-X**

This course encompasses clinical observation in various settings assigned by the instructor. Students are responsible for transportation and expenses related to this course. *Prerequisite: Grade of "C" or better in all of the previous OTA required courses.*

OTA-250 Occupational Therapy in Adult Development**4-3-2**

This course focuses on occupational therapy assessment and interventions related to human growth and development from early adulthood to death. Normal and pathological conditions associated with aging are discussed. Students have opportunities for direct observation and interaction. *Prerequisite: Grade of "C" or better in all previous OTA required courses.*

OTA-260 Occupational Therapy in Outpatient Settings**4-3-2**

This course presents the occupational therapy process in outpatient settings. Theory, assessment, and treatment of clients in outpatient settings will be emphasized. Students will learn how to adapt and restore function with a focus on the development of interventions for a variety of diagnoses and problems. Concepts of work hardening, ergonomics, and physical agent modalities will be introduced. *Prerequisite: Grade of "C" or better in all previous OTA required courses.*

OTA-PHL

Credit Hours-Lecture-Lab

X=Variable

OTA-270 Seminar 1-1-0

This course is designed to provide increased awareness of practice and professional development issues. Program management, professional development, credentialing and licensure is addressed. Students develop employment skills, such as resume writing and interviewing. Students discuss ethical dilemmas in the workplace and learn strategies for conflict resolution. *Prerequisites: OTA 100, OTA 105, OTA 110, OTA 120, OTA 130, OTA 210, OTA 211, OTA 220, OTA 240 and OTA 250.*

OTA-280 Practice Applications 5-3-4

This course provides an opportunity for students to develop clinical practice strategies in the areas of assessment, intervention, discharge, and documentation. Various practice settings and models are addressed through case-based learning. Students identify the role of research in practice and will learn to use evidence-based materials to make clinical decisions. *Prerequisites: OTA 100, OTA 105, OTA 110, OTA 120, OTA 130, OTA 210, OTA 211, OTA 220, OTA 240 and OTA 250.*

OTA-285 Practicum III 6-0-18 (Clinical)

This course is comprised of a supervised clinical practice experience in a setting assigned by the instructor. The equivalent of full time clinical practice will be assigned. Students are provided with specific placement prior to registration for this course. Students are responsible for their own housing, transportation and other expenses related to this course. *Prerequisite: Grade of "C" or better in all of the previous OTA required courses.*

OTA-286 Practicum IV 6-0-18 (Clinical)

This course is comprised of a supervised clinical practice experience in a setting assigned by the instructor. The equivalent of full time clinical practice will be assigned. Students will be provided with specific placement prior to registration for this course. Students will be responsible for their own housing, transportation and other expenses related to this course. *Prerequisite: Grade of "C" or better in all of the previous OTA required courses.*

(PHL) PHILOSOPHY

PHL-101 Introduction to Philosophy 3-3-0

This course examines some of the questions and arguments which have influenced the western tradition of philosophical inquiry. Among the areas of philosophy we will explore are epistemology (What can I know?), metaphysics (What is real?), ethics (What makes a right action right?), philosophy of religion, and social and political philosophy.

PHL-105 Introduction to Ethics 3-3-0

This course is an investigation of the morals and values confronting the individual and society and an examination of the major systems, both traditional and modern, of ethical thought. An analysis of current topics will include the nature of morality and ethics and the criteria for evaluating actions.

PHL-110 Religions of the World 3-3-0

This course explores religion as a significant part of human experience and introduces the student to the historical development and the current beliefs and practices of diverse religious traditions in the United States and around the globe.

PHL-120 Introduction to the New Testament 3-3-0

This introductory course to the New Testament emphasizes its literary structure and development, the philosophical themes which run through it and the larger historical world from which it emerged. No previous familiarity with the New Testament is expected.

PHL-125 Introduction to the Old Testament 3-3-0

This introductory course to the Old Testament emphasizes its literary structure and development, the philosophical themes which run through it and the larger historical world from which it emerged. No previous familiarity with the Old Testament is expected.

(PHY) PHYSICS**PHY-100 Introduction to Astronomy 4-3-2**

This course provides an introduction to basic astronomy. Students learn about the composition, dynamics, evolution of planets, stars and the universe. Laboratory activities give students the opportunity to demonstrate physics principles presented in lecture. One evening field trip required. *Prerequisite: Grade of "C" or better in MTH 110 or equivalent score on the Placement assessment.*

PHY-101 Survey of the Physical Sciences 4-3-2

This course is a comprehensive, descriptive study of the scientific principles of the physical world. Students will use the process of inquiry to gain an understanding of the physical sciences: physics, chemistry, astronomy, geology, and meteorology. This course is the recommended physical science course for Elementary Education majors, but will also satisfy the physical science requirement for an Associate of Arts degree. For non-science majors only. *Prerequisite: Grade of "NB" or better in MTH 050 or equivalent score on a placement exam.*

PHY-105 Introduction to Physics 4-3-2

This course provides an introduction to basic physics. Students apply the principles of mechanics, waves, matter and atomic theory. Laboratory activities give students the opportunity to demonstrate physics principles presented in lecture. This course is designed for non-science majors. *Prerequisite: Grade of "C" or better in MTH 110 or equivalent score on the Placement assessment.*

PHY-110 Introduction to Geology 4-3-2

This course is an introduction to basic geology. Students learn about the principles and applications of mineralogy, petrology, structural geology, geomorphology and historical geology. Laboratory skills necessary for the study of geology are introduced. *Prerequisite: Grade of "NC" or better in MTH 050 or equivalent score on the Mathematics Placement Assessment test for entrance into MTH 110.*

PHY-120 General Physics I 4-3-2

This is an algebra based physics course. Students learn about the principles and applications of mechanics, wave motion and heat. Laboratory activities give students an opportunity to demonstrate physics principles presented in lecture. This course is designed for earth science, biology, chemistry, health and medical majors. *Prerequisite: Grade of "C" or better in MTH 130 or equivalent (MTH 131 recommended).*

PHY-130 General Physics II 4-3-2

This is an algebra based physics course. Students learn about the principles and applications of electromagnetism and optics. Laboratory activities give students the opportunity to demonstrate physics principles presented in lecture. This course is designed for earth science, biology, chemistry, health and medical majors. *Prerequisites: Grade of "C" or better in PHY 120 and grade of "C" or better in MTH 130 or equivalent (MTH 131 recommended).*

PHY-140 Technical Physics 4-2-4

This course is a survey of basic physics for students majoring in technical fields. Students learn how the concepts of force, work, rate, resistance, energy, power and force transformation are related to mechanical, fluid, thermal and electrical systems. Laboratory activities give the students an opportunity to demonstrate physics principles presented in lecture. *Prerequisite: Grade of "C" or better in TEC 108 or MTH 110, or equivalent test score.*

PHY-220 Physics for Engineers and Scientists I 5-4-2

This is a calculus based physics course. Students learn about the principles and applications of mechanics, wave motion and heat. Laboratory activities give students the opportunity to develop the basic skills in data collection and analysis required in physics. This course is designed for pre-engineering, physics, chemistry and pre-med majors. *Prerequisite: Grade of "C" or better in MTH 140.*

PHY-222 Physics for Engineers and Scientists II 5-4-2

This course is a continuation of the calculus based physics course, PHY 220. Students learn about the principles and applications of electromagnetism and optics. *Prerequisites: Grade of "C" or better in MTH 140 and PHY 220.*

PLB–PLS

Credit Hours-Lecture-Lab

X=Variable

(PLB) PHLEBOTOMY

PLB-100 Introduction to Phlebotomy

2-1-2

Students develop knowledge and skills in phlebotomy. Skill development includes performing common blood collection methods using proper techniques and universal precautions. Collection covers vacuum collection devices, syringes, capillary skin puncture, butterfly needles, blood cultures and specimen collection on adults, children and infants. The course also emphasizes infection prevention, proper patient identification, quality assurance, specimen handling, order of draw and processing. *Prerequisite: Selective admission into the course.*

PLB-101 Phlebotomy Clinical

1-0-2

Students are assigned to various clinical facilities to develop knowledge and skills in a phlebotomy clinical environment. Skill development includes performing common blood collection methods using proper techniques and universal precautions. Collection covers vacuum collection devices, syringes, capillary skin puncture, butterfly needles, blood cultures, and specimen collection on adults, children and infants. The course also emphasizes infection prevention, proper patient identification, quality assurance, specimen handling, order of draw and processing. *Prerequisite: Grade of "C" or better in PLB 100.*

(PLS) POLITICAL SCIENCE

PLS-101 American Government and Politics

3-3-0

This course is an introduction to the origin, organization and policy of the United States and state government. The course fulfills Missouri state law requiring instruction in the Constitutions of the United States and Missouri.

PLS-102 Missouri Government and Constitution

1-1-0

This is a course restricted to transfer students only, dealing with functions, organizations and documentation of Missouri state and local government. *Prerequisite: PLS 101 or equivalent. Out of state transfer students only.*

PLS-103 Introduction to American Public Policy

3-3-0

This course deals with the process of policy formulation and with the historical development of specific public policies in such fields as economics, foreign affairs, education, business and labor, social welfare, criminal justice, health and environment. *Prerequisite: PLS 101.*

PLS-201 International Relations

3-3-0

This course is a study of international relations, international behavior, and the role of the nation-state within the international system. Areas of concentration include foreign policy, major social and political forces at work in the contemporary world, theories of international relations, nationalism and conflict/cooperation. *Prerequisite: PLS 101 or GRY 101.*

PLS-250 The Politics of the Environment

3-3-0

Environmental politics provides an in-depth analysis of the domestic and global dimensions of environmental issues, including air and water pollution, hazardous waste, stratospheric ozone depletion, global warming, the green-house effect, population policy and alternative energy systems. This course will focus on the political interactions within and across nation-states in dealing with environmental problems. *Prerequisite: PLS 101.*

PLS-255 Environmental Laws and Regulations

3-3-0

This course provides an introduction to hazardous waste regulations, solid waste management programs, the Clean Air Act, OSHA regulations, the Clean Water Act, environmental audits, remediation technology and issues relating to the impact of environmental laws on society.

(PSY) PSYCHOLOGY**PSY-100 Psychology of Personal Adjustment 3-3-0**

This course introduces the psychological principles that contribute to the well-adjusted personality. It explores how to integrate these principles into an explanation of human adjustment and apply them to stress and mood management, human relationships, self-esteem and personal adjustment.

PSY-110 Introduction to Psychology 3-3-0

This course provides an introduction to psychology including history and systems, physiology, human growth and development, sensation and perception, learning, memory, emotion, motivation, personality, adjustment, psychopathology, industrial and social psychology.

PSY-130 Life Span Developmental Psychology 3-3-0

This course is a study of human life span development, including the physical, emotional, cognitive and social developments and changes from conception through death.

PSY-210 Research Methods for Behavioral Science 3-3-0

This course will explore the basic principles underlying the design of empirical studies and the relationship between research design and statistical analysis. It will familiarize students with a variety of basic research methods and the mechanics and structure of empirical journal articles. Students will design and conduct a research project. *Prerequisites: PSY 110, ENG 101, MTH 105 or higher.*

PSY-220 Statistics for Behavioral Science 4-3-2

In this course you will learn about statistics that allow researchers to describe and summarize data and distinguish between chance and systematic effects in typical experimental contexts. The lab portion involves applications of the concepts and procedures utilizing the SPSS statistical package. *Prerequisites: Grade of "C" or better in PSY 110 or SOC 101, ENG 101, and MTH 105 or higher.*

PSY-255 Psychology of Work Behavior 3-3-0

This course provides an introduction to the concepts used in industrial and organizational psychology. Specifically, employee selection, performance appraisal, training, motivation, workplace health and consumer behavior are included. *Prerequisite: PSY 110.*

PSY-260 Child Psychology 3-3-0

This course is the study of developmental psychology as it relates to the child from conception to middle childhood. It will cover the biological, behavioral, cognitive, emotional and cultural development of the child as well as family and social influences such as discipline and abuse. *Prerequisite: PSY 110.*

PSY-265 Adolescent Psychology 3-3-0

This course is the study of developmental psychology as it relates to the adolescent and the transition from childhood to adulthood. It will cover the biological, behavioral, cognitive, emotional, and cultural development of the adolescent and issues such as attitudes, interest, and socialization specific to the adolescent. *Prerequisite: PSY 110.*

PSY-270 Psychology of Aging 3-3-0

This course explores the mental, biological, physical, emotional, social and personality development of aging as well as mental health and coping mechanisms. It considers psychological and physiological changes throughout adulthood including death, dying and grief. *Prerequisite: PSY 110.*

PSY-275 Consumer Psychology 3-3-0

This course provides an introduction to the psychology's application in consumer buying behavior including how consumers notice, remember, learn, and are motivated to buy goods and services based on the advertisements, salespeople, friends, and other consumers around them. *Prerequisite: PSY 110.*

PSY-280 Social Psychology 3-3-0

This course provides an introduction to the scientific study of how we think about, influence, and relate to other people. Topics of study include: social cognition, social perception, attitude, prejudice and discrimination, social and group influence, aggression and prosocial behavior, interpersonal attraction and intimate relationships. *Prerequisite: PSY 110.*

PSY–PTA

Credit Hours-Lecture-Lab
X=Variable

PSY-285 Abnormal Psychology 3-3-0

This course provides an examination of psychological disorders as well as the theoretical, clinical, and experimental perspectives of the study of psychopathology. Emphasis is placed on the terminology, classification, etiology, assessment, and treatment of the major disorders. *Prerequisite:* PSY 110.

(PTA) PHYSICAL THERAPIST ASSISTANT

PTA-100 Introduction to Physical Therapist Assistant 2-2-0

This course provides an introduction to the role and scope of practice of the Physical Therapist Assistant. Emphasis will be on educational preparation, historical overview of physical therapy in the healthcare system, professional affiliations, structure and function of physical therapy services, ethical and legal issues in healthcare and the demographics of disability. This course also provides an introduction to a self-study program in medical terminology. *Prerequisite:* Admission to the PTA program.

PTA-140 Basic Neuroscience and Motor Development 1-1-X

This course focuses on principles of neuroanatomy, neurophysiology, motor behavior, motor development and motor learning. *Prerequisite:* Acceptance into the Physical Therapist Assistant program.

PTA-200 Therapeutic Procedures 6-3-9

This course is an introduction to patient care activities, fundamentals of patient handling, data collection, infection control procedures, wound management and environmental safety as related to physical therapy. *Prerequisite:* Grade of "C" or better in all of the previous Physical Therapist Assistant courses.

PTA-220 Physical Agents and Therapeutic Massage 4-3-3

This course is a study of the use of physical agents and massage in the practice of physical therapy for the relief of pain and inflammation and the facilitation of motor function. The course includes techniques of application, indications, contraindications, precautions and conditions for which treatment is provided. *Prerequisite:* Grade of "C" or better in all of the previous Physical Therapist Assistant courses.

PTA-225 Clinical Kinesiology 5-3-6

The focus of this course includes principles of motion, body movements, muscle actions, and joint mechanics in relation to human movement. Principles of anatomical and biomechanical analysis as related to normal movement and modified by pathological conditions are included. *Prerequisite:* Admission to the PTA program.

PTA-230 Therapeutic Exercise I/Orthopedic and Cardiopulmonary Conditions 4-3-3

This course provides an introduction of basic exercise principles and the application to musculoskeletal and cardiopulmonary conditions commonly encountered in physical therapy practice with discussion, demonstration and practice of therapeutic exercise interventions designed to improve musculoskeletal or cardiopulmonary function. *Prerequisite:* Grade of "C" or better in all of the previous Physical Therapist Assistant courses.

PTA-240 Therapeutic Exercise II/Neurologic Conditions 3-2-3

This course provides an introduction of basic therapeutic intervention strategies for patients with neurologic conditions commonly encountered in physical therapy practice. Discussion, demonstration and practice of therapeutic interventions and compensatory strategies for impaired function are included. *Prerequisite:* Grade of "C" or better in all of the previous Physical Therapist Assistant courses.

PTA-250 Clinical Education I 3-0-X (Clinicals)

This course entails a two-week, full-time, supervised clinical experience at each of two healthcare facilities in which there will be active student participation in patient care consistent with the completed academic coursework. *Prerequisite:* Grade of "C" or better in all of the previous Physical Therapist Assistant courses.

PTA-260 Professional Behaviors for the PTA**3-2-3**

This course provides an introduction to the concept of individual differences, communication skills, psychology of disability and professional behavior within the healthcare delivery system. *Prerequisite: Admission to the PTA program.*

PTA-270 Selected Topics**2-2-0**

This course is comprised of selected topics in physical therapy to complement prior course work and to respond to student and faculty (academic and clinical) identified requests for additional information. Clinical topics may include: advanced wound topics, chronic pain, orthotics, prosthetics and other contemporary issues encountered in physical therapy delivery systems. *Prerequisite: Grade of "C" or better in all of the previous Physical Therapist Assistant courses.*

PTA-280 Clinical Education II**10-0-X**

This course is comprised of a six-week, full-time, supervised clinical experience at each of two healthcare facilities. One facility must be an acute general hospital setting. Prior completion of academic coursework will allow integration of classroom and clinical experiences with refinement of assessment, communication and treatment skills. *Prerequisite: Grade of "C" or better in all of the previous Physical Therapist Assistant courses.*

(RDG) READING**RDG-040 Reading Comprehension****3-3-0**

Students are actively engaged with a tutor in an individualized program that will build vocabulary, increase comprehension and make reading easier and more enjoyable. Progress is measured through pre- and post-testing, completion of coursework and tutor observation. If students complete this course but still are not reading at a 12th grade level, they may retake RDG 040.

RDG-045 Introduction to College Reading I**3-3-0**

Reading 045 prepares the students to enter Reading 050 by focusing on the reading process. Students will be introduced to basic vocabulary development, reading strategies and patterns of organization necessary to successful college reading comprehension. Students review the reading process through reading activities and practice.

RDG-050 Introduction to College Reading II**3-3-0**

This course will help students develop college reading skills. By developing critical reading strategies for specific college courses students will be able to meet the reading demands of college-level courses. Critical reading and thinking, vocabulary development, literal and critical comprehension, and organization of written material will be stressed. *Prerequisite: Satisfactory score on the Reading placement assessment, or completion of RDG 045 with a grade of NC or better and satisfactory score on Reading 045 exit assessment.*

RDG-100 College Vocabulary**1-0-2**

This course is designed for students who want to expand their college level vocabulary skills through the study of word origins and word parts including prefixes, roots, suffixes and word families. Students will be introduced to vocabulary essential to understanding basic concepts required in general education courses.

RDG-105 College Learning Strategies**3-3-0**

This course teaches strategies that will help students succeed in college course work. Students will develop personal learning strategies for various courses. Topics include comprehending college material, integrating new information with prior knowledge for memory and evaluating written material. The relationship between reading and writing is emphasized. *Concurrent enrollment in a 100 level or above course is recommended.*

RDG-106 Technical Reading**3-3-0**

Students will work on comprehending and applying critical reading and thinking to occupational and workplace literature. Topics will include reading workplace materials including manuals, memos, letters, reports, proposals and graphs, charts and tables. Textbook reading, test taking and vocabulary strategies for technical coursework will also be taught.

RST

Credit Hours-Lecture-Lab

X=Variable

(RST) RESPIRATORY THERAPY**RST-105 Cardiopulmonary Anatomy and Physiology 3-3-0**

This course is a study of the gross anatomy and microscopic anatomy of the pulmonary and cardiac systems. Electrophysiology of the heart, mechanics of ventilation, gas transport and neurochemical control of ventilation are presented. *Prerequisite: BCS 145 or BCS 146.*

RST-210 Respiratory Equipment and Therapeutics 3-3-0

This course focuses on gas laws, aerosol, humidity, chest physiotherapy, IPPB and medical gas therapy. *Prerequisite: Acceptance into the Respiratory Therapy program.*

RST-215 Respiratory Pharmacology 2-2-0

Concepts of basic drug science and their application to respiratory drugs, including bronchodilators, corticosteroids, mucokinetic agents and antibiotics are covered. The student is also introduced to other drugs commonly used by pulmonary patients. *Prerequisite: Acceptance into the Respiratory Therapy program.*

RST-223 Mechanical Ventilation 4-4-0

This course focuses on the management of ventilatory failure, including ventilator commitment, blood gas management and weaning. Operation of common ventilators and various techniques of mechanical ventilation are presented. *Prerequisite: Grade of "C" or better in all of the previous Respiratory Therapy courses.*

RST-226 Cardiopulmonary Diagnostics I 2-2-0

This course focuses on the performance and analysis of pulmonary function studies arterial blood gases. *Prerequisite: Grade of "C" or better in all of the previous Respiratory Therapy courses.*

RST-227 Cardiopulmonary Diagnostics II 2-2-0

This course focuses on patient assessment techniques, chest x-ray interpretation, and EKG interpretation. *Prerequisite: Grade of "C" or better in all of the previous Respiratory Therapy courses.*

RST-228 Pulmonary Diseases 3-3-0

This course is a survey of pathological disorders of the lungs. Etiology, pathophysiology, clinical manifestations and treatment are covered for each disease. *Prerequisite: Grade of "C" or better in all of the previous Respiratory Therapy courses.*

RST-240 Pediatric Respiratory Therapy 3-3-0

This course includes fetal development, high risk anticipation, newborn assessment and care, neonatal and pediatric respiratory diseases and therapies, monitoring, airway care, mechanical ventilation and home care. *Prerequisite: Grade of "C" or better in all of the previous Respiratory Therapy courses.*

RST-242 Applied Cardiopulmonary Pathology 3-3-0

This course is a study of techniques used to monitor and treat the pathophysiological processes encountered in respiratory care. The course includes the evaluation of cardiac output, intravascular pressures and tissue oxygenation. *Prerequisite: Grade of "C" or better in all of the previous Respiratory Therapy courses.*

RST-251 Special Procedures in Respiratory Care 2-2-0

The focus of this course will be on assisting the physician with bronchoscopy, thoracentesis, tracheotomy, chest tube insertion, invasive cardiac monitoring, pulmonary rehabilitation, quality control procedures and equipment evaluation. *Prerequisite: Grade of "C" or better in all of the previous Respiratory Therapy courses.*

RST-253 Advanced Respiratory Therapy Theory 2-2-0

This course is an analysis of therapeutic procedures to achieve and maintain a patent airway, adequate ventilation and oxygenation and removal of broncho-pulmonary secretions. *Prerequisite: Grade of "C" or better in all of the previous Respiratory Therapy courses.*

RST–SOC

Credit Hours-Lecture-Lab

X=Variable

RST-281 Clinical Practicum I 4-0-0

This course provides practical experience in the hospital setting, medical gas therapy, chest physiotherapy and IPPB therapy. *Prerequisite:* Acceptance into the Respiratory Therapy Program.

RST-282 Clinical Practicum II 8-0-0

This course focuses on critical care, mechanical ventilation, arterial blood gases and departmental specialty areas. *Prerequisite:* Grade of "C" or better in all of the previous Respiratory Therapy courses.

RST-283 Clinical Practicum III 8-0-0

This course provides practical experience in critical care, neonatal, medical, pediatric and surgical intensive care patients. Practical experience in special procedures and department management skills is also included. *Prerequisite:* Grade of "C" or better in all of the previous Respiratory Therapy courses.

(SOC) SOCIOLOGY**SOC-101 Introduction to Sociology 3-3-0**

This course is an inquiry into the nature of society, the foundation of group life, institutions, structure of society and the role of the individual as a group member. Emphasis on implications for social change is encouraged.

SOC-200 Cultural Diversity 3-3-0

This course is designed to broaden the student's awareness of the cognitive knowledge and skill necessary to effectively interact with and/or serve a culturally diverse population. This course focuses on contemporary issues of gender, class, race, sexual orientation, religious and ethnic experiences in American life. The course develops skills in recognizing diversity within social systems from a tri-dimensional perspective: individual, group and organizational. This course requires students to understand the organizational and managerial aspects of cultural diversity in order to compete within the workplace and within our global world. *Prerequisite:* SOC 101.

SOC-210 Urban Sociology 3-3-0

This course is an inquiry into the origin and practice of urban sociology. The course explores theories of urbanization, urbanization of the United States, contemporary urban problems, and global urban development. This course partially fulfills Social/Behavioral Science requirement. *Prerequisite:* SOC 101.

SOC-212 Introduction to Social Work 3-3-0

This course is an introduction to the values, knowledge and skills that guide the practice of social work. It emphasizes the values of self-determination, individualization and respect for diversity. *Prerequisite:* SOC 101.

SOC-215 Deconstructing Social Problems 3-3-0

This course is a critical examination of social problems that exist in modern societies. Social problems will be addressed through an analysis of how they are constructed, the sociological approach to problems, and an exploration of why problems persist. Policies related to reducing social problems will be discussed with an emphasis on what we can do in our community to decrease the negative consequences of social problems. *Prerequisite:* SOC 101

SOC-225 Sociology of Family 3-3-0

This course is an exploration into the structural diversity of family including social construction and historical change, social location, current issues in marriage and family, and the family as a primary group of interpersonal relationships structured by gender roles. *Prerequisite:* SOC 101.

SOC-250 Service Learning in the Community: Making Sociology Real 3-1-4

This course combines community service with classroom instruction to develop the student's critical and reflective thinking skills. Students are involved in a process of volunteering, journaling and reflecting that is meaningful for advancing sociological understanding as well as making a difference in the community and the student's personal life. *Prerequisite:* SOC 101.

SPN–SSM–SUR

Credit Hours-Lecture-Lab

X=Variable

(SPN) SPANISH

SPN-101 Beginning Spanish I 3-3-0

This course covers the essentials of pronunciation, verb construction, vocabulary, and speech patterns through aural-oral practice. This course serves as introduction to Spanish speaking cultures. Class will be conducted in Spanish to the extent that is practical.

SPN-102 Beginning Spanish II 3-3-0

This course is a continuation of Beginning Spanish I. Pronunciation, verb construction, vocabulary and speech patterns will be emphasized. This course serves as introduction to Spanish-speaking cultures. Class will be conducted entirely in Spanish. *Prerequisite: Grade of "C" or better in SPN 101.*

SPN-201 Intermediate Spanish I 3-3-0

This course will emphasize improving pronunciation, verb construction, vocabulary and speech patterns. It introduces students to Spanish composition and Spanish literary forms. The class will be conducted entirely in Spanish. *Prerequisite: Grade of "C" or better in SPN 102.*

SPN-202 Intermediate Spanish II 3-3-0

This course is a continuation of Intermediate Spanish I. Students to improve pronunciation, verb construction, vocabulary and speech patterns. Students start spontaneous conversation, write more compositions and read short stories and poetry. The class is conducted entirely in Spanish. *Prerequisite: Grade of "C" or better in SPN 201.*

SPN-205 Conversational Spanish 3-3-0

The primary objective of the course is to develop the student's competency in communicating through the spoken medium. Students engage in conversation and role playing at a formality level appropriate to their language knowledge. Class may also meet in real settings: such as, a restaurant, a hospital or Hispanic neighborhood. Emphasis is on idiomatic expressions used in daily speech, pronunciation, and vocabulary building. *Prerequisites: Grade of "C" or better in SPN 202 or concurrent enrollment.*

(SSM) SOPHOMORE SEMINAR

SSM-201 Sophomore Seminar 3-3-0

(Subtitled with the focus of the particular section)

In this course, students apply critical thinking, analytical reading, valuing, and information management skills to topics across the general education curriculum. Each section of this course focuses upon a different and specific topic, as indicated in the title for that course section. A seminar format requiring independent work, intellectual creativity and academic rigor is used to enhance the students' transition to upper level college work. *Prerequisites: Minimum of 28 hours in the General Education Transfer block must include ENG 102 or ENG 150 (or concurrent enrollment), CIS 101 and MTH 110 (or higher). Additional prerequisites may be required for certain sections.*

(SUR) SURGICAL TECHNOLOGY

SUR-105 Operating Room Technique I 6-5-3

This course introduces students to surgical asepsis, communication, surgical instrumentation and basic lab skills. *Prerequisites: Admission to Surgical Technology program; Grade of "C" or better in BCS 145, BCS 146, BCS 200 and HIT 191.*

SUR-106 Operating Room Technique II 6-5-3

This course introduces students to anesthesia concepts, hemostasis, positioning, wound closure materials, potential complications, infection, wound healing, and death and dying. This includes more advanced lab skill procedures. *Prerequisite: Grade of "C" or better in SUR 105.*

SUR–TEC–THR

Credit Hours-Lecture-Lab

X=Variable

SUR-110 Pharmacology for Surgical Technologists**2-2-0**

This course introduces basic pharmacology including mathematics, drug regulation and administration. The student is introduced to medications commonly used in surgery and learns how to safely prepare drugs for administration. Anesthetic agents and concepts are taught to give the student a more complete picture of surgical patient care. *Prerequisite: Admission to the Surgical Technology program.*

SUR-120 Surgical Procedures I**8-5-X**

This course is designed to instruct the learner to identify the operative sequence for surgical procedures. Emphasis is placed on surgical anatomy, equipment, and supplies needed for each procedure and surgical sequence. Areas studied include general surgery, gastrointestinal surgery, obstetrics and gynecology, genitourinary, ophthalmic, ear and nose, and laser surgeries. Students will be assigned to cases in the operating room where they will learn to become proficient in their skills. Sterile technique will be practiced. *Prerequisites: Grade of "C" or better in SUR 106 and SUR 110.*

SUR-121 Surgical Procedures II**8-5-X**

This course is designed to instruct the learner to identify the operative sequence for surgical procedures. Emphasis is placed on surgical anatomy, equipment, and supplies needed for each procedure and surgical sequence. Areas studied include thoracic, orthopedics, plastic, vascular, cardiac, throat, neurosurgery, pediatric, geriatric, and trauma surgeries. Students will be assigned to cases in the operating room where they will learn to become proficient in their skills. Sterile technique will be practiced. Students will be assigned to more advanced cases. *Prerequisite: Grade of "C" or better in all of the previous Surgical Technology courses.*

(TEC) TECHNICAL EDUCATION CURRICULUM**TEC-108 Applied Technical Mathematics****3-3-0**

Course content includes the fundamental processes of mathematics with emphasis on problem-solving techniques. This course covers mathematical principles and concepts applicable to the technical trades utilizing arithmetic, introductory algebra, geometry, elementary trigonometry, and basic statistical methods.

TEC-285 Occupational Seminar**1-1-0**

Instruction for this course includes career identification, self-assessment, resume' development, preparation of cover letters, completion of applications for local jobs, learning the on-line employment application process, research of local companies, jobs available, and current salary ranges, job searching techniques and tools, interviewing skills, follow-up steps after the job interview and on-the-job performance expectations. *Prerequisite: Minimum of 30 hours toward degree program or advisor's approval.*

(THR) THEATER**THR-101 Introduction to Theater****3-3-0**

This interactive course is a study of the collaboration and contributions that various theatre artists make to the process of transforming drama to the stage. Combining lecture, creative projects, and reflection on live theatre events, students will develop their ability to think critically about the artistic experience. Purchasing tickets and attending local productions required.

THR-110 Acting Fundamentals**3-2-2**

This highly interactive course focuses on stage techniques, basics of characterization and scene study, making the student a more informed observer of the acting process. Students will practice the fundamental rehearsal process culminating in the performance of selected scenes. Buying tickets to and attendance at local performances required.

THR-115 Introduction to Script Analysis**3-3-0**

In this course, students will read and analyze a variety of scripts and their translation from page to performance. Students will examine the relationships of directors, designers, performers, and audience in play production. Buying tickets to and attendance at local productions required.

THR–TLC

Credit Hours-Lecture-Lab
X=Variable

THR-116 Introduction to Performance Studies 3-3-0

Performance Studies is essentially a study of culture through its cultural performances—its rituals, ceremonies, and everyday life. In this highly interactive, performance-based course, students will explore the social, cultural, and aesthetic aspects of performance through an examination of self and society. This course combines lecture, readings, and original student performances of oral and literary texts.

THR-118 Costume Design and Production 3-2-2

Students explore the design process, costume silhouette and detail, and scripts and character analysis within the context of historical theatrical costuming connected to the concurrent Fine Arts production.

THR-120 Acting I 3-2-2

This course introduces the basic skills of actor performance which include using the body and voice as tools and working cooperatively and efficiently with others. While various acting theories are introduced, the Stanislavski System will be emphasized as the main theoretical basis and a shared vocabulary for the development and evaluation of in-class performances. The students explore the interrelation of onstage and offstage performances, drawing upon life experience as a basis for creating characters for the stage. Attendance at live theatre productions is required.

THR-121 Acting Fundamentals II 3-2-2

This highly interactive course is an extension of Acting Fundamentals, offering a more intensive practice of stage techniques, characterization and scene study. Students will study various styles and theories of acting technique. A strong emphasis will be on developing a personal process and theory of acting. Purchasing tickets to and attending local performances required. *Prerequisite: Grade of "C" or better in THR 110.*

THR-125 Beginning Playwriting 3-3-0

In this introductory course, students practice specific techniques, practical exercises, and methods of playwriting. Working with the basic building blocks of dramatic structure, students will explore character development, analyze the elements of good dialogue writing, research how to get plays produced and published. Students will also participate in staged readings of original work from the class.

THR-130 Introduction to Theatrical Design and Technical Theatre 3-1-4

In this hands-on course students gain an understanding of the duties of the scenic, costume, lighting and sound designers and all related production members. Students learn about the working relationships between designers and other members of the production and how the theatrical product moves from concept to realization onstage. Students learn about physical theatre spaces, as well as design fundamentals that are applicable to each of the design areas.

THR-215 Introduction to Stage Directing 3-2-2

In this course, students will apply principles of script analysis, acting technique, and fundamentals of design in the direction of a one-act play for an audience. Students will learn basic procedures of selecting, analyzing, casting and producing a play. *Prerequisite: Grade of "C" or better in THR 110, THR 115 and THR 130.*

(TLC) SPECKMAN TUTORING AND LEARNING CENTER

TLC-021 Critical Thinking 1-1-0

This course will assist students in developing critical thinking skills. Students will learn to make logical decisions through thoughtful text analysis, self-examination, and problem-solving strategies. In-class interactive critical thinking groups will read, answer questions, and collaborate (through discussions of logic and reasoning) in order to arrive at the best possible conclusions. Other activities include examinations of primary sources (from various dates and a variety of subjects) and how authors' perspectives and language shape documents and how readers' emotions and experiences affect perception of information. Critical thinking skills will be beneficial in taking tests and can be applied to all subjects encountered by students, as well as improve career and citizenship opportunities.

Credit Hours-Lecture-Lab

X=Variable

TLC-022 Study Strategies for College 1-0-2

This course is designed as a brief overview of study strategies that college students need in order to succeed in college course work. Topics covered in this course include time management, note taking, textbook reading, test taking, critical thinking, memory strategies and health issues that affect college success. Students should report to the Speckman Tutoring & Learning Center to develop a course completion plan.

TLC-023 Mathematics Study Strategies 1-0-2

This course will assist students in developing the study skills necessary for success in any mathematics course. Some of the topics include: note taking, reading a math textbook, test taking and reducing math anxiety. This course is open to any student currently enrolled in any OTC mathematics course. *Prerequisite: Must be concurrently enrolled in a mathematics course.*

TLC-030 Algebra Essentials 2-2-0

This B-Block course is designed for the student who drops a math course. The student will be assessed on current math knowledge then guided through a self-paced learning of math concepts. This should help the student be more successful the next time that math course is taken. It can also benefit the student who wants to strengthen math skills prior to entering a new math course. It is recommended that the student also take a B-Block TLC 023 class. This course does not replace any required math course. The student should report to ICE 212 to begin. The student may begin prior to the posted start date of B-Block classes.

TLC-038 Beginning Algebra Refresher 1-1-0

This course reviews basic arithmetic and basic algebra skills in an effort to more accurately assess students' current math knowledge and prepare them for their initial math class at OTC. This course is designed for students who need a review of math basics; this course is not recommended for students who need in-depth instruction in math.

TLC-041 Basic English Grammar 1-1-0

This course provides students an opportunity to review basic English language skills in preparation for college-level courses and employs a functional approach to grammar. Students learn the basics of punctuation, grammar and sentence structure, and then apply what they have learned to their writing. Students enrolled in 100-level courses who need to review language skills are encouraged to enroll in this course as well. The class meets one time per week for 50 minutes, and additional outside work will be required. Students should report to the Speckman Tutoring & Learning Center during the first week of their enrollment. Enrollment is open until midterm, but it is suggested that students enroll by the fourth week of the semester.

TLC-048 Academic Refresher in English 1-1-0

This course prepares the student for the COMPASS Writing Skills Placement assessment by focusing on test-taking strategies and reviewing basic college-level writing skills. This course is designed for students who need a review of writing basics; this course is not recommended for students who need in-depth instruction in English.

TLC-050 Vocabulary I 1-0-2

This course is for students who want to improve their vocabulary. It is a self-paced, computer-assisted course that emphasizes learning vocabulary through context. Students will take a pretest and be placed in an appropriate level of study. An instructor assists students in a course of study and will assess progress. Students should check Blackboard on or before the first day of class for instructions on preparing a course completion plan. This class has three different levels of vocabulary. Students wishing to continue building their vocabulary after completing TLC-050 should enroll in TLC-055.

TLC-055 Vocabulary II 1-0-2

This is the second course for students who want to improve their vocabulary. It is a self-paced, computer assisted course that emphasizes learning vocabulary through context. Students will take a pretest and be placed in an appropriate level of study. An instructor assists students in a course of study and will assess students' progress. Students should check blackboard for their schedule as soon as they enroll. This course has three levels. *Prerequisites: Grade of "NC" or better in TLC 050.*

TLC–WLD

Credit Hours-Lecture-Lab

X=Variable

TLC-058 Academic Refresher in Reading 1-1-0

This course prepares the student for the COMPASS Reading Placement Test by focusing on efficient critical reading, critical thinking, text-analysis, and college-level test-taking strategies. TLC 058 is designed for students who need a review; this course is not recommended for students who need in-depth instruction in reading comprehension or test-taking.

(WLD) WELDING TECHNOLOGY**WLD-101 Welding Fundamentals 3-2-2**

This course provides study and practice of fundamental welding processes that include oxyacetylene, metallic arc, MIG and TIG. This does not satisfy any OTC requirements within the A.A. or A.A.S. degree programs. *This course should be taken as general elective only.*

WLD-111 Shielded Metal Arc Welding I 4-2-4

Note: Course is offered in the fall semester. This course is an application of entry level skills and knowledge of shielded metal arc welding, oxy-fuel cutting, plasma arc cutting, and carbon arc cutting and gouging are taught in this course. Standards set by the American Welding Society (AWS) are utilized in both classroom study and laboratory work.

WLD-112 Shielded Metal Arc Welding II 4-2-4

Note: Course is offered in the spring semester. This course follows WLD 111 and introduces the student to the entry level skills and knowledge of welding the various joint designs in various welding positions with the shielded metal arc welding process. *Prerequisite: WLD 111.*

WLD-113 Gas Metal and Flux Cored Arc Welding 4-2-4

Note: Course is offered in the fall semester. The student will learn and apply entry level skills and knowledge of welding with gas metal and flux cored arc welding processes. Standards set by the American Welding Society (AWS) are utilized in both classroom study and laboratory work.

WLD-114 Gas Tungsten Arc Welding 4-2-4

Note: Course is offered in the spring semester. This course examines safe practices in the welding industry as well as welding theory, terms, and definitions. Students will weld on carbon steel, stainless steel, and aluminum.

WLD-221 Advanced Shielded Metal Arc Welding 4-2-4

Note: Course is offered in the fall semester. This course provides an in-depth study and application of skills and knowledge of shielded metal arc welding, oxy-fuel cutting, plasma arc cutting, and carbon arc gouging using standards set forth by the American Welding Society (AWS). *Prerequisites: WLD 111 and WLD 112.*

WLD-222 Advanced Gas Metal Arc Welding 4-2-4

Note: Course is offered in the fall semester. This course provides the student with an in-depth study of advanced skills and knowledge of the gas metal arc welding process. *Prerequisite: WLD 113.*

WLD-223 Advanced Flux Cored Arc Welding/SMAW Pipe Welding 4-2-4

Note: Course is offered in the spring semester. This course will provide the student with an in-depth study of advanced skills and knowledge of the flux cored arc welding process. Welding theory terms and definitions as well as self-shielded and gas shielded electrodes will be applied. This course will also build on skills learned in the Advanced Shielded Metal Arc Welding (WLD 221) class giving students a better opportunity to enter the workforce as a pipe welder. *Prerequisites: WLD 113 and WLD 221.*

WLD-224 Advanced Gas Tungsten Arc Welding 4-2-4

Note: Course is offered in the spring semester. This course provides the student with an in-depth study of advanced skills and knowledge of welding with the gas tungsten arc welding process. *Prerequisite: WLD 114.*

WLD-225 Welding Inspection Technology I 4-3-2

Note: Course is offered in the fall semester. This course introduces the student to the skills and knowledge required to become a welding inspector.

WLD

Credit Hours-Lecture-Lab

X=Variable

WLD-226 Welding Inspection Technology II**4-3-2**

Note: Course is offered in the spring semester. This course is a continuation of the study of the skills and practice required to become a welding inspector. *Prerequisite: WLD 225.*

WLD-230 Industrial Welding Specialist**32-16-32**

This course introduces students to entry level skills and knowledge of shielded metal arc welding, gas metal arc welding, flux-cored arc welding, gas tungsten arc welding, oxy-fuel cutting, plasma arc cutting and carbon arc cutting and gouging. Students are also introduced to welding the various joint designs in different welding positions as well as orbital welding and manual welding of sanitary tubing.

WLD-235 Fabrication and Finishing**4-2-4**

This course will introduce the students to advanced fabrication and finishing techniques commonly used in the local stainless steel industry. Skills developed will include blueprint reading, material documentation, fabrication and finishing. This is an advanced course that will apply collective knowledge of the major welding processes. *Prerequisite: Grade of "C" or better in WLD 230 and concurrent enrollment in WLD 223 and WLD 224.*

WLD-290 Co-Operative Ed/Intern/Related Elective**Variable 1-3**

This course is comprised of a supervised work experience in the major field which provides the student with the opportunity to make practical application of the knowledge and skills attained through coursework. An individualized instructional management plan will determine goals to be accomplished. Seminars may also be required. *Prerequisites: Completion of 30 credit hours and 2.0 GPA, or advisor's approval. Please see the department chair of the specific program area for application.*

OZARKS TECHNICAL COMMUNITY COLLEGE

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2015–2016

STUDENT HANDBOOK

The OTC Student Handbook is published by the office of the Dean of Students. All efforts have been made to assure accuracy of the information contained in this handbook. Questions regarding the Student Handbook should be directed to the Dean of Students, OTC Springfield Campus, Information Commons West, Room 219-G.

ACADEMIC INTEGRITY

Students of Ozarks Technical Community College are expected to behave as responsible members of the college community and to be honest and ethical in their academic work. OTC faculty strives to provide students with the knowledge, skills, judgment and wisdom they need to participate meaningfully in society as educated adults. To falsify or fabricate the results of one's research; to present the words, ideas, data, or work of another as one's own; or to cheat on an examination, corrupts the essential process of higher education.

Guidelines for Academic Integrity

Students assume full responsibility for the content and integrity of the course work they submit. Following are guidelines to assist students in observing academic integrity:

- Students must do their own work and submit only their own work on examinations, reports and projects, unless otherwise permitted by the instructor. Students are encouraged to contact their instructor about appropriate citation guidelines.
- Students must follow all written and/or verbal instructions given by instructors or designated college representatives prior to taking examinations, placement assessments, tests, quizzes and evaluations.
- Students are responsible for adhering to course requirements as specified by the instructor in the course syllabus.

Violations of Academic Integrity

Actions constituting violations of academic integrity include, but are not limited to, the following:

PLAGIARISM. The use of another's words, ideas, data or product without appropriate acknowledgment, such as copying another's work, presenting someone else's opinions and theories as one's own, or working jointly on a project and then submitting it as one's own.

CHEATING. The use or attempted use of unauthorized materials, information or study aids; an act of deceit by which a student attempts to misrepresent academic skills or knowledge; and, unauthorized copying or collaboration.

FABRICATION. Intentional misrepresentation or invention of any information, such as falsifying research, inventing or exaggerating data, or listing incorrect or fictitious references.

COLLUSION. Assisting another to commit an act of academic dishonesty, such as paying or bribing someone to acquire a test or assignment, taking a test or doing an assignment for someone else, or allowing someone to do these things for one's own benefit.

ACADEMIC MISCONDUCT. The intentional violation of college policies, such as tampering with grades, misrepresenting one's identity or taking part in obtaining or distributing any part of a test or any information about the test.

Academic Integrity Awareness

In each class, students will be notified about policies and procedures regarding academic integrity. That notification is stated in the course syllabus and contains an explanation of academic integrity, student responsibilities related to academic integrity, and references to information about the consequences of academic integrity violations.

Academic Due Process

Students can expect fair treatment in academic matters, and the following steps will be followed in each situation:

1. Notification of the Charge
2. Presentation of the Evidence Supporting the Charge
3. Opportunity to Respond
4. Notification of the Consequences
5. Information about the Appeal Process

Consequences for Academic Integrity Violations

Academic dishonesty or violation of academic integrity is not condoned or tolerated at Ozarks Technical Community College. Most infractions of academic integrity are governed by the instructional dean responsible for the division in which the violation occurs. OTC delegates the following disciplinary authorities to faculty in responding to infractions of academic integrity:

1. Requiring a reattempt at the assignment or assessment in question.
2. Requiring the completion of an alternative assignment or assessment.
3. Lowering the score on the assignment or assessment in question.
4. Recording a "zero" for the assignment or assessment in question.
5. Referral for further review and disciplinary action at the administrative level and approval.

Some infractions of academic integrity may violate state or federal laws or professional codes and may carry serious legal consequences.

Procedures for Addressing Academic Integrity Violations

Upon determination that an academic integrity violation has occurred, the following procedures will be followed:

1. The instructor will communicate with the student about the violation and the consequences.
2. In cases of flagrant academic integrity violations, the instructor will document the incident and the consequences on an Academic Integrity Infraction Form.
3. The instructor will submit the completed form, via OTC e-mail, to the student and appropriate college officials.
4. If a student does not challenge the accusation and accepts the proposed sanction, the student signs the form electronically and

returns it to the instructor via OTC e-mail. The instructor then forwards the signed copy to the appropriate college officials.

5. If a student wishes to challenge the accusation or penalty, he or she must follow the Academic Appeal procedure as outlined in this Student Handbook.

Copyright Infringement and Peer to Peer Use

Ozarks Technical Community College is committed to operating in compliance with U. S. copyright law and enjoining copyright compliance by its instructors, staff and students in their performance of College related activities per 2.51 – Copyright Compliance Policy. College faculty, staff and students who infringe copyright by abusing "fair use" do so at their own risk.

Downloading or sharing music, videos, or any other copyrighted media without legally purchasing it or without the owner's permission is a violation of copyright law and the Digital Millennium Copyright Act (DCMA) and is subject to legal action including substantial fines and criminal prosecution. Using OTC's network or Internet services to download or share media illegally is also a violation of College policies, including the Information Technology Acceptable Use Policy, and is subject to disciplinary action as outlined in the student handbook.

It is a violation of this policy to distribute, download, upload, stream, scan, store, or share any material including software, data, music, videos, games, or any other electronic file when:

- a. the file is copyrighted, and distribution to the user has not been authorized by the copyright owner or
- b. the intended use is specified as illegal by any federal or state law or statute

While using Peer –to-Peer (P2P) software is not illegal per se, their use does consume significant Internet bandwidth on the College's network and inhibits access to others for legitimate academic, administrative, or other purposes. Users also need to be aware that they are not entirely anonymous on the Internet and that copyright owners can often detect the origin of illegal downloading or sharing of media by identifying a computer's individual Internet address. In addition, the College is legally obligated to respond to legitimate notification of copyright violation from copyright owners.

In general, anyone found liable for civil copyright infringement may be legally ordered to pay either actual damages or "statutory" damages affixed at not less than \$750 and not more than \$30,000 per work infringed. For "willful" infringement, a court may award up to \$150,000 per work infringed.

Users on campus who engage in peer to peer file sharing, copyright infringement, or other prohibited activities are also subject to disciplinary action in accordance with College policies.

STANDARDS OF STUDENT CONDUCT

Board of Trustees Policy 5.15

A. Purpose

To describe the standards of conduct to which students and organizations must adhere.

B. Policy

1. The basic standard of behavior requires a student to comply with, observe and obey state and/or federal laws; the policies, rules and regulations of the college; and orders of the chancellor, faculty, administrators and staff of the institution who are charged with the administration of institutional affairs.
2. A student is not entitled to greater immunities or privileges before the law than those enjoyed by other citizens generally. He/she is expected to obey the civil statutes of the state of Missouri and the federal government, and the Board of Trustees' rules and regulations. He/she may be penalized by the college for violating its standards of conduct even though punished by state or federal authorities for the same act.

C. Procedures

1. Inherent Authority

The succeeding regulations describe offenses for which disciplinary proceedings may be initiated. The college expects all students and student organizations to obey the law, to show respect for properly constituted authority, to maintain integrity and high standards of individual honor in scholastic work, and to observe standards of conduct appropriate for a community of scholars. In short, a student enrolled in the college assumes an obligation to conduct himself/herself in a manner compatible with the college's function as an educational institution.

The college reserves the right to take necessary and appropriate action to protect the safety and well-being of the campus and to support the mission of the college. When a college administrator receives a report that a student's or organization's behavior off-campus potentially poses significant danger to the college community, or would otherwise disrupt the campus environment or adversely affect the college, appropriate action as outlined in this code may be taken. Complaints about off-campus behavior will be considered on a case-by-case basis to determine whether they merit review within the Student Conduct system.

To the extent feasible and practical, disciplinary regulations at the college are in writing in order to provide students general notice of prohibited conduct. The regulations are not a criminal code; they should be read broadly and are not designed to define misconduct in exhaustive terms.

2. Enumerated Standards

Violations of the Code of Conduct include but are not limited to:

- a. unauthorized and/or illegal possession, use or distribution of alcoholic beverages or presence on campus while under the influence of such
- b. manufacture, distribution, dispensation, possession or use of controlled substances or presence on campus while under the influence of such
- c. theft of property or services
- d. vandalism or destruction of property
- e. assault and/or battery
- f. conduct that threatens the physical or mental well-being, health or safety of an individual
- g. intimidation or harassment that causes a reasonable student to fear for his or her physical safety or property, and the intimidation or harassment may consist of physical actions, including gestures, or oral, cyber bullying, electronic, or written communications, and any threat of retaliation for reporting any such intimidation or harassment
- h. gender-based or sexual misconduct as defined by policy 5.38
- i. possession, use, sales or purchase of firearms or other weapons
- j. trespassing on college property or other unauthorized use of college property or services
- k. abuse or misuse of college computer, network or other technology system resources, including unauthorized distribution of copyrighted material including through peer-to-peer (P2P) file sharing and other violations of the college's Computer Use Agreement
- l. academic dishonesty, including cheating, plagiarizing or furnishing false information on official documents or other requests from the college
- m. disrupting the peace, the learning environment of another student, the education process, college operations and/or related activity
- n. failure to identify oneself to, or comply with the directions of an authorized college employee or representative who is performing his/her duties
- o. any conduct that constitutes a violation of the terms of any discipline imposed in accordance with this procedure, or any form of retaliation towards a complainant or any participant in an investigation or conduct process. Retaliation will not be tolerated

- p. any conduct that constitutes a violation of handbooks, policy, contracts, or behavioral agreements specific to college programs or activities
- q. any conduct that constitutes a violation of Federal or State law, local ordinance or college policy or regulation
- r. gambling of any kind on college property, in college facilities or using college resources
- s. forgery, alteration or misuse of any college document, record, key, electronic device or identification cards
- t. hazing—participating in or causing a willful act, occurring on or off campus of the college, directed against a student or a prospective member of an organization operating under the sanction of the college that recklessly endangers the mental or physical health or safety of a student or prospective member for the purpose of initiation or admission into or continued membership in any such organization to the extent that such person is knowingly placed at probable risk of the loss of life or probable bodily or psychological harm
- u. stalking—purposely and repeatedly engaging in an unwanted course of conduct that causes alarm to another person when it is reasonable in that person's situation to have been alarmed by the conduct
- v. disorderly, indecent or lewd conduct
- w. failure to conform to community standards of safety, good taste and decency. A student's dress, hygiene and appearance shall not be such that it causes disruption, distracts others from the educational process or creates a health or safety problem
- x. participation in campus demonstrations that unreasonably disrupt the normal operations of the college and infringes on the rights of other members of the college community

D. Responsibilities

- 1. As delegated by the Associate Vice Chancellor for Student Affairs, the Dean of Students or the designated campus or center administrator will administer the day-to-day proceedings in dealing with alleged violations of college standards of conduct in a manner consistent with procedural due process.
- 2. The Associate Vice-Chancellor for Student Affairs, or other designated campus or center administrators, will receive student appeals and facilitate appeal proceedings as outlined in policy 5.16 Student Discipline and Appeal Procedures.

E. Definitions

1. "Associate Vice Chancellor for Student Affairs" means the Associate Vice Chancellor for Student Affairs, his/her designee(s), or his/her representative(s).
2. "Dean of Students" means the Dean of Students, his/her designee(s), or his/her representative(s).
3. "Chancellor" means the Chancellor, his/her designee(s) or his/her representative(s).
4. "Student" means all persons taking courses at Ozarks Technical Community College, for college credit or non-credit, for continuing education, personal development, adult education and literacy or professional development, whether or not pursuing any degree or program offered by Ozarks Technical Community College. The college has jurisdiction for disciplinary purposes over a person who was an enrolled student at the time he/she allegedly violated a Board of Trustees policy, college regulation, or administrative rule.
5. "Administrator" represents all vice chancellors, associate vice chancellors, campus presidents, deans, directors, coordinators, and department chairpersons of the college for the purposes of this code.
6. "Board" means the Board of Trustees of Ozarks Technical Community College.

STUDENT DISCIPLINE & APPEALS PROCESS

A. Purpose

1. To detail the disciplinary process and possible sanctions which may be imposed on students who violate Board of Trustees policy or the Standards of Conduct for Students and Organizations.
2. To provide a fair, timely and efficient disciplinary and appeals process for students and victims.

B. Policy

1. The college administration will maintain a formal, fair and equitable process for addressing violations of the Standards of Student Conduct.
2. The procedures established will be focused on resolving such violations appropriately, expediently and fairly, and will include the process for appealing a disciplinary determination.

C. Preliminary Matters

1. Conflicts of interest: If any person involved in implementing these procedures determines that he or she cannot apply them fairly because of the identity of a Victim, Respondent, or witness, or due

to any other conflict of interest, another appropriate individual will be designated to fulfill his or her responsibilities.

2. Conduct that constitutes a crime: Some alleged violations of the Sexual Misconduct Policy also constitute criminal conduct. In such instances, the Victim is encouraged to file a report with the appropriate law enforcement authorities and, if requested, the college will assist the complainant in doing so. The pendency of a criminal investigation, however, does not relieve the college of its responsibilities under Title IX to investigate such claims. Therefore, to the extent doing so does not interfere with any criminal investigation, the college will proceed with its own investigation and resolution of the complaint.
3. Advisors: At all stages of the process when there is an allegation of a violation of the Sexual Misconduct Policy, both a Respondent and Victim, if applicable, may have an advisor of their choice attend. See the definition of "Advisor" in Section F for more information regarding the role of an advisor.
4. Rights of the parties: At all stages of the process, the Victim and Respondent shall have equal rights. They include:
 - Equal opportunity to identify and have considered witnesses and other relevant evidence.
 - Similar and timely access to all information considered by the investigators and Student Conduct Panel.
 - Equal opportunity to review any statements or evidence provided by the other party.
 - Equal access to review and comment upon any information independently developed by the investigators.
5. Notice: Throughout the process, the involved parties will be given timely notice of meetings and appeal hearings.
6. Title IX Coordinator: The Title IX Coordinator will be involved during all stages of the process when there is an alleged violation of the Sexual Misconduct Policy.

D. Procedures

1. Investigation
 - a. As designated by the Associate Vice Chancellor for Student Affairs, when the Dean of Students (Dean) or other appropriate campus or center administrator receives information that a student has allegedly violated a Board of Trustees policy, college procedure, or administrative rule, the Dean or another college administrator designated by the Associate Vice Chancellor for Student Affairs shall investigate the alleged violation:
 - i. The Dean and/or other college administrators designated by the Associate Vice Chancellor for Student

Affairs (designee) will initiate an investigation by contacting all involved parties to schedule an individual meeting, obtain a statement in writing detailing the events of the incident in question or review a statement if already available. The length of time of the investigation is dependent on the complexity of the incident and number of individuals involved if applicable.

- ii. At a minimum, the investigation will include interviews of all witnesses identified by the individuals involved in the incident, or a review of a written summary of their testimony, or a review of a copy of their written statements if already available, a review of all relevant records and documents, a review of photographs and other physical evidence, and a review of security video footage if available.
- iii. Investigations of these cases will be completed as quickly as possible and all reasonable attempts will be made to complete the disciplinary process within 60 days. The length of the resolution process will depend upon the complexity of the case.
- iv. Following meetings with the involved parties, interviews of witnesses or reviews of their written testimony, a review of all relevant records and documents, a review of any available photographs and other physical evidence, and a review of security video footage, if available, the Dean or designee may utilize informal means of resolution, such as mediation, in lieu of additional formal processes. However, informal means may only be used with the parties' voluntary cooperation and, in cases alleging sexual misconduct, the involvement of the Title IX Coordinator. However, a Victim will not be required to work out the problem directly with the Respondent. Moreover, the parties may terminate any such informal means at any time. In any event, informal means, even on a voluntary basis, will not be used to resolve complaints alleging any form of sexual violence.

2. Interim Measures

- a. No-Contact Order: Upon receipt of a report of a violation of policy, the Dean or designee may issue a no-contact order between the parties involved in the case. The no-contact order prohibits communication between/among the parties including but not limited to: contact by telephone, email, hand-written note, instant messaging, text messaging, online postings/message boards, through a third person or in person. This includes any email or message accounts that are affiliated with the parties' identities. If any party violates the no-contact

order, the Dean or designee may pursue additional disciplinary action.

b. Interim Suspension

- i. In certain circumstances, the Dean of Students or designee may impose an interim suspension prior to the Administrative Disposition. Interim suspension may be imposed only where, in the opinion of the Dean of Students, the presence of the Respondent would:

- seriously disrupt the operation of the college;
- constitute a danger to the records or other physical properties of the college; or
- constitute a danger to the safety or welfare of the Respondent or other persons.

- ii. During interim suspension, the Respondent shall be denied access to part or all of campus, college facilities, activities, classes or privileges for which the Respondent might otherwise have access.

- iii. The Dean or other designated campus or center administrator must notify the Respondent of this action in writing and set a resolution meeting date as soon as practical.

- c. Other Interim Measures: In certain circumstances, the Dean of Students or designee may provide a Victim an effective escort between classes and activities, may make alternative class-placement arrangements, or may implement any other interim measure deemed appropriate for the circumstances.

3. Administrative Disposition

- a. At the conclusion of an investigation, if, by a preponderance of the evidence, the Dean or designee determines that no policies have been violated, sanctions will not be imposed. In that event, a written decision (Administrative Disposition) will be sent simultaneously to the Respondent and to the Victim, if applicable, which will include a description of the information considered, the results of the investigation, and a copy of this policy. The Dean or designee may implement and notify the Respondent and Victim of any accommodations necessary to safeguard the campus. This Administrative Disposition is final subject to a Victim's appeal rights in Section 5, below.
- b. At the conclusion of an investigation, if, by a preponderance of the evidence, the Dean or designee determines that a violation has occurred, he or she will issue a written decision within five (5) college business days. The written decision (Administrative Disposition) will be sent simultaneously in writing to the Respondent and Victim, if applicable. The written

decision will include a description of the policies violated, the conduct that violated policy, the sanction imposed and a copy of this policy. This Administrative Decision is final subject to the parties' appeal rights in Section 5, below.

4. Sanctions

The severity of sanctions or corrective actions will depend on the frequency or severity of the offense and history of past misconduct. The Dean of Students, Associate Vice Chancellor for Student Affairs, or other administrator designated by the Associate Vice Chancellor for Student Affairs, the Student Conduct Panel, or the Chancellor may impose one or more of the following sanctions for violation of board policies, college regulations, or administrative rules:

- a. Censure. Written reprimand to the Respondent on whom it is imposed, giving official notice that subsequent violations of college policy will carry heavier penalties because of this prior infraction.
- b. Probation. The Respondent may continue to attend classes but may be prohibited from officially representing the college or participating in any extracurricular activities. Probation may be for a designated period of time or indefinite as outlined in the letter to the Respondent. Any further violations of board policy may lead to suspension or expulsion from the college.
- c. Withholding of Transcripts/Registration Restrictions. Imposed upon a Respondent who fails to pay a debt owed the college or who has a disciplinary case pending final disposition.
- d. Restitution. Reimbursement by the Respondent for damage to, or misappropriation of property. Reimbursement may include appropriate service to the College to repair or otherwise compensate for damages.
- e. No Contact Order following Administrative Disposition. Requires that one or more involved individuals have no contact through any means of communication with another party. This order remains in effect until rescinded by the Dean of Students or administrator designated by the Associate Vice Chancellor for Student Affairs, or by written request from all involved parties.
- f. Failing or lowered grade. In cases of academic integrity violations, final course grades assigned may be lowered or an "F" grade assigned.
- g. Suspension. Severs the relationship of the Respondent with the college and college related activities under conditions which permit and anticipate the Respondent's eventual return to the college. The conditions for readmission will be stated in the letter of disposition. Suspension may be for a designated period of time or indefinite.

- h. Expulsion. Permanent severance from the college. Expulsion may be rescinded only by the Chancellor.
- i. Other remedial measures. Other remedial measures may be implemented as appropriate based on the circumstances. For example, a person found to have violated college policy may be required to undergo training or counseling.

5. Appeal Hearing

The Respondent or Victim, if applicable, may appeal the administrative disposition within five college business days of receipt of the written notification of the decision. Any such request for appeal must be made in writing to the Associate Vice Chancellor for Student Affairs or designee and must include the following: 1) the name of the individual requesting the appeal; 2) the disciplinary decision being appealed and the date the disciplinary decision took place; and 3) the basis for the appeal.

- a. Administrative Dispositions can be appealed for the following reasons only: 1) new information that alters the finding of fact and was not reasonably available at the time of the administrative disposition; 2) a procedural error that unfairly and materially affected the outcome of the case; 3) the sanction imposed is excessive or disproportionate to the offense(s); and/or (4) conflict of interest or bias on the part of the person(s) who participated in the decision.
- b. The status of the Respondent will not be changed during the process of the appeal except in the event of an interim suspension. Any violation of policy occurring during the appeal process may result in a change of status of the Respondent.
- c. If the Respondent or Victim, if applicable, chooses not to appeal or does not request an appeal by the appropriate date, the administrative disposition indicated in the written decision will go into effect as specified.
- d. The college will grant to students with disabilities a reasonable amount of additional time to appeal a disciplinary determination when a student's disability impacts or limits the student's ability to appeal an Administrative Disposition within the deadline of five college business days after receipt of the written notification of the decision. Upon receipt of an untimely appeal from a student with disabilities, the Associate Vice Chancellor for Student Affairs or designee, in consultation with the Assistant Dean for Disability Support Services, will determine if the student's untimely appeal was due to a disability impacting or limiting the student's ability to appeal within the five-day deadline. The Associate Vice Chancellor for Student Affairs' or designee's decision to grant or deny the appeal is final, and notification of the decision will be made in writing within five college business days.

- e. Within five (5) college business days from receipt of the written decision, any Respondent or Victim may request an extension of the timeframe for appealing an administrative disposition:
 - i. An extension will be granted only for serious illness or injury of the Respondent/Victim, serious illness or injury of the Respondent's/Victim's immediate family, or a death in the Respondent's/Victim's immediate family.
 - ii. The request for an extension must be made in writing to the Associate Vice Chancellor for Student Affairs or designee and include documentation supporting the reason for the needed extension such as an obituary notice, doctor's note, etc.
 - iii. Within five college business days from receipt of the request for an extension, a written decision on the request will be sent to the requesting student. If the college grants an extension, the decision will include the length of the extension and the new date by which the student must appeal the administration disposition in question.
 - iv. The decision of Associate Vice Chancellor for Student Affairs or designee concerning a request for an extension of the time to appeal shall be final.
 - f. Receipt will be presumed to have occurred three (3) college business days after the mailing or emailing of the written decision to the last known address on file for the Respondent and/or Victim.
6. Procedure for Appeal Hearing
- a. When an appeal has been timely filed or has otherwise been granted with an extension, the Associate Vice Chancellor for Student Affairs, or designee, will review the substance of the appeal request and may take either of the following actions: 1) deny the appeal request if a proper basis for appeal has not been identified; or 2) refer the matter for a hearing before the Student Conduct Panel. The decision of the Associate Vice Chancellor for Student Affairs or designee on granting an appeal is final.
 - b. If an appeal is referred to the Student Conduct Panel (Panel), the Panel shall consist of at least three individuals chosen from a pool of trained faculty, staff and administrators and will be appointed by the Associate Vice Chancellor for Student Affairs or designee.
 - c. The chairperson of the Panel will be selected by the Panel by majority vote and the chairperson will preside over the hearing.
 - d. Proceedings will be closed to all but members of the Panel, the Respondent, the Victim if applicable, the Associate Vice Chancellor or designated campus administrator, a note taker or court reporter appointed by the chairperson, advisors, and pertinent witnesses.
 - e. Prior to the hearing, both the Respondent and Victim will be notified in writing of the date and time of the hearing and be given similar and timely access to information that will be used by the Panel during the hearing.
 - f. The chairperson of the Panel or his/her designee shall prepare a record of the hearing which shall include a copy of the notice of the hearing, all documentary and tangible evidence, a summary or transcript of all testimonial evidence, and any other material considered by the Panel, and the Panel's decision for submission to the Associate Vice Chancellor for Student Affairs or designee.
 - g. The results of a polygraph test will not be used nor will a polygraph test be requested with respect to any process described in this policy.
 - h. Both the Respondent and Victim may be present during the hearing. Upon request from the Victim, arrangements will be made so that the Victim and the Respondent are not in the room at the same time. The Victim's presence is not a prerequisite to conducting a hearing.
 - i. Cross examination of the parties or witnesses is not permitted. However, the Respondent or the Victim may present questions to be asked of a party or witness by the chairperson of the Panel. The chairperson has discretion to determine whether the question is appropriate and relevant and whether he or she will ask the question on behalf of a party.
 - j. In proceedings involving alleged violations of the Sexual Misconduct Policy, questioning about the Victim's past sexual history with anyone other than the Respondent is not typically permitted, especially when the purpose is to show the complainant's sexual predisposition. However, in certain circumstances it may be permissible, such as if the Victim raises the issue or if it is of particular relevance to the current complaint. Evidence of a prior consensual dating or sexual relationship between the Respondent and Victim by itself does not imply consent or preclude a finding that the Sexual Misconduct Policy was violated.
 - k. The Respondent and Victim, if applicable, will have the opportunity to make an opening statement. The Respondent and Victim are not required to testify at a hearing, and no inference will be drawn from the failure to testify. The Respondent and Victim will have equal opportunities to offer testimony and other evidence at the hearing.
 - l. During the hearing, the college has the burden to prove the violation(s) of the Standards of Conduct for Students

and Organizations by the preponderance of the evidence. Proceedings before the Student Conduct Panel are non-adversarial; the rules of evidence of court proceedings do not apply.

- m. When a Respondent or Victim wishes to present witnesses who are members of the college community, they can request that the Associate Vice Chancellor for Student Affairs or designee's office issue notifications to the witnesses requesting their presence at the hearing, but the college shall not be responsible in any manner for the presence of any witnesses at the hearing.
- n. If evidence is presented at the hearing that was not previously made known to the Respondent or Victim, the Respondent or Victim may have time during the hearing to examine and respond.
- o. Following the hearing, by majority vote, the Panel will provide a written decision to the Associate Vice Chancellor for Student Affairs or designee within five college business days from the hearing. If the Panel finds that a violation occurred, the written decision will include recommended sanctions.
- p. The Associate Vice Chancellor for Student Affairs designee will review the decision of Student Conduct Panel giving presumptive weight to the decision of the Panel. The Associate Vice Chancellor for Student Affairs or designee can affirm, vacate or modify the Panel's decision and recommended sanctions in whole or in part. The Associate Vice Chancellor's decision is final subject to the parties' right to Chancellor review in Section 7 below. The Associate Vice Chancellor's written decision will be sent simultaneously to the Respondent and Victim within five college business days of receiving the Panel's decision.

7. Chancellor Review

- a. The Respondent or Victim may request that the Chancellor review the Associate Vice Chancellor's decision from an appeal hearing only where the sanction imposed is expulsion or a suspension of more than ten college business days. The request must be made within five College business days of receipt of the Associate Vice Chancellor's decision. The request for review must be made in writing to the Associate Vice Chancellor. If the Respondent or Victim, if applicable, chooses not to seek a review or does not request a review by the appropriate date, or where a review is not available, the decision of the Associate Vice Chancellor will go into effect as specified.
- b. Any request for review by the Chancellor shall include the following: 1) name of the individual requesting the review, 2) the decision being reviewed, 3) the reasons for the review, and 4) any other information the person requesting the review believes is important.

- c. A decision can be reviewed for the following reasons only as determined by the Associate Vice Chancellor for Student Affairs: 1) new information that alters the finding of fact and was not readily available at the time of the hearing, 2) a procedural error that materially or unfairly affected the outcome, 3) the sanction imposed is excessive or disproportionate to the offense(s), and/or 4) conflict of interest or bias on the part of person(s) who participated in the decisions.
- d. When a request for review has been timely filed or has otherwise been accepted with an extension, the Associate Vice Chancellor for Student Affairs or designee will review the substance of the request and may take either of the following actions: (1) deny the request if a proper basis for review has not been identified or (2) send the record of the hearing, the Associate Vice Chancellor's decision and the request for review to the Chancellor. The Associate Vice Chancellor's or designee's decision to grant a review by the Chancellor is final.
- e. The standard of review will be preponderance of the evidence and the Chancellor will give presumptive weight to the decision of the Associate Vice Chancellor or designee. The decision of the Chancellor will be final and is not subject to further appeal or review.
- f. The Chancellor can affirm, vacate or modify the Associate Vice Chancellor's or designee's decision in whole or in part. The Chancellor may also remand the matter to another Student Conduct Panel for another appeal hearing or for further fact finding. The decision of the Chancellor will be sent in writing simultaneously to the Respondent and the Victim.
- g. Within five college business days from receipt of the Associate Vice Chancellor's or designee's decision from an appeal hearing, the Respondent or Victim may request an extension of time to request a review by the Chancellor:
 - i. An extension will be granted only for serious illness or injury of the Respondent/Victim, serious illness or injury of the Respondent's/Victim's immediate family, or death in the Respondent's/Victim's immediate family.
 - ii. The request for an extension must be made in writing to the Associate Vice Chancellor for Student Affairs or designee and include documentation supporting the reason for the needed extension such as an obituary notice, doctor's note, etc.
 - iii. Within five college business days from receipt of the request for an extension, a written decision on the request will be sent to the requesting student. If the college grants an extension, the decision will include the length of the extension and the new date by which the student must submit a review request.

- iv. The decision of Associate Vice Chancellor for Student Affairs or designee concerning a request for an extension of the time to submit a request for a review by the Chancellor shall be final.
- h. Receipt will be presumed to have occurred three (3) college business days after the mailing or emailing of the written decision to the last known address on file for the Respondent and/or Victim.
- i. The college will grant students with disabilities a reasonable amount of time to request a review when a student's disability impacts or limits the student's ability to request a review within the deadline of five college business days after receipt of the Associate Vice Chancellor's or designee's decision. Upon receipt of an untimely request for review from a student with disabilities, the Associate Vice Chancellor for Student Affairs or designee, in consultation with the Assistant Dean for Disability Support Services, will determine if the student's untimely request for review was due to a disability impacting or limiting the student's ability to request a review within the five-day deadline. The Associate Vice Chancellor's or designee's decision to grant or deny the review is final, and notification of the decision will be made in writing within five college business days.
- j. The Chancellor may appoint a person to act for the Chancellor concerning any process set forth in this Section 7.
8. The college will not require a Respondent or Victim to abide by a non-disclosure agreement, in writing or otherwise, that would prevent the redisclosure of information related to the outcome of the proceeding.
9. In the event any portion of this policy conflicts with state or federal law, state or federal, the law shall be followed.
10. Neither the college nor any officer, employee or agent of the college may retaliate, intimidate, threaten, coerce or otherwise discriminate against any individual for exercising their rights to avail themselves of the college's disciplinary procedures or otherwise participating in the process outlined above (for example, as a witness).
3. "College business day" means any day the administrative offices of the college are open for business.
4. "Advisor" means a person who assists a Respondent or Victim during an investigation, resolution conference or hearing. The role of the advisor is limited to consultation. While advisors may be present at any resolution meeting or hearing, they may not address hearing bodies, speak in resolution meetings, or question witnesses. Because the purpose of this disciplinary process is to provide a fair review of alleged violations of the Standards of Student Conduct rather than a formal legal proceeding, advisors may not advocate for a party, may not be actively involved in the proceedings, and must agree to maintain the confidentiality of the process.
5. "Preponderance of the evidence" means more likely than not that the Respondent violated college policy, procedure or administration rule.

INVOLUNTARY MEDICAL LEAVE

When a student's health challenges preclude successful completion of his/her academic course work, the student may be withdrawn from all course work. Normally, a Withdrawal from college will result from the student's voluntary efforts. In exceptional circumstances involving imminently-threatening behaviors, a student may be required to leave the college involuntarily until such threatening circumstances have been resolved. In accordance with college policy and applicable federal and state laws, a student whose behavior or health status meets the established criteria may be subject to an Involuntary Medical Leave.

Involuntary Medical Leave Procedures

If it becomes evident, through observed behavior or report(s) from faculty, staff or students, that a withdrawal from the college may be in the best interest of a student and the college, and the student does not agree, then the following procedures will be engaged:

1. The Dean of Students will consult with the Behavioral Intervention Team and will review all available information obtained from incident reports, conversations with appropriate faculty and staff, and the expert opinions of appropriate medical and mental health professionals.
2. The Dean will engage in a determination on an individualized, case-by-case basis and will apply the Direct Threat Analysis, taking into consideration the nature, duration and severity of the risk and the likelihood, imminence and nature of future harmful conduct.
3. The Dean will meet with the student, if possible, so as to allow an opportunity for the student to provide evidence to the contrary and/or to make suggestions for reasonable accommodation(s) short of involuntary medical leave from the college.

E. Responsibilities N/A

F. Definitions

1. "Respondent" means a student, group, or organization who is alleged to have violated board policy.
2. "Victim" means an individual who has allegedly experienced an act or acts prohibited by Board Policy 5.38. The term "victim" when used herein shall not apply to any administrative disposition and/or disciplinary proceeding that does not involve an alleged violation of Board Policy 5.38.

4. If, after discussion, the student chooses to withdraw voluntarily, a Withdrawal Form will be processed indicating that the withdrawal is voluntary and of a medical nature.
5. If, after discussion, the student maintains that he/she would like to remain enrolled, the Dean will consult with appropriate medical and mental health professionals regarding the evidence presented by the student. The Dean will also consult with the college Chancellor, the Associate Vice Chancellor for Student Affairs and other college officials as appropriate.
6. The Dean will render a decision and present that to the student in writing. Should the decision be to withdraw the student involuntarily, appropriate conditions for return will be contained within the withdrawal letter. These conditions for return will include a signed release by the student for appropriate college officials to discuss the student's readiness to return to college and assistance in developing reasonable accommodations to mitigate any direct threat to others.
7. Should the student choose to appeal the Dean's decision, he/she will make such appeal in writing to the Associate Vice Chancellor for Student Affairs following the procedures outlined in this Student Handbook.
2. The unlawful possession, use, manufacture, distribution or dispensation of illicit drugs or being present on campus or at college-sponsored functions while under the influence of such is strictly prohibited.
3. Students who violate these policies will be subject to disciplinary action, severity of which will be based on the seriousness of the offense. Sanctions will be applied consistently and may range from an informal reprimand to dismissal from the college. Employees who violate these policies will be subject to disciplinary action ranging from an informal reprimand to termination of employment depending upon the seriousness of the offense. If the conduct resulting in discipline also involves a violation of state or federal law then the College will refer the matter to the appropriate authorities for prosecution.

Commonly Imposed Disciplinary Sanctions for On-Campus Policy Violations

Minor violations, such as first offense intoxication or possession of small amount of alcohol or illegal drugs:

- Written reprimand
- Disciplinary probation up to one year and/or
- Referral for substance abuse evaluation/treatment (optional)

Subsequent or major violations, such as on-campus use, distribution or manufacture of alcohol or illegal drugs:

- Suspension for a period up to one year and/or
- Disciplinary probation up to one year and/or
- Referral for substance abuse evaluation/treatment (optional)

4. Local, state and federal laws also prohibit the unlawful possession, use, distribution and sale of alcohol and illicit drugs. Criminal penalties for violation of such laws range from fines up to \$20,000 and imprisonment for terms up to and including life. The purchase, attempt to purchase or possession of any intoxicating liquor by a person under 21 years of age is punishable by a fine of \$50 to \$1,000 and up to a year in jail. The same penalties apply to persons who knowingly furnish alcohol to minors and to persons under the age of 21 who are visibly intoxicated.
5. Serious health risks are associated with the use of illicit drugs and alcohol. Some but not all of the risks are listed below:
 - a. Alcohol and other depressants: Consumption of alcohol and other depressants causes a number of marked changes in behavior. Even low doses significantly impair judgment and coordination required for safety and care. Use of alcohol and depressants can lead to addiction and accidents as a result of impaired ability and judgment.

DRUG & ALCOHOL ABUSE PREVENTION

Ozarks Technical Community College is committed to providing a safe, positive and healthy environment for students and employees. Pursuant to the Drug-Free Schools and Communities Act Amendments of 1989, OTC has established a drug and alcohol abuse prevention program for students and employees. This program is designed to raise awareness across the institution about the risks of, policies governing, and available resources for alcohol and drug abuse. OTC policies provide, in part, that no student or employee shall consume, possess, manufacture, distribute or sell any unauthorized alcoholic beverages or illicit drugs or be under the influence of such substances on college-owned or -controlled property or at events sponsored by OTC. In observance of state law, no person under the age of twenty-one (21) may purchase or attempt to purchase, or have in his or her possession, any alcoholic or intoxicating beverage on the college premises or at college-sponsored events. OTC complies with all laws related to underage drinking, and any violation of the state's underage drinking laws will be referred to the appropriate authorities.

In accordance with legal mandates and its commitment to providing a drug and alcohol-free workplace and learning environment, OTC will implement and enforce the following Drug and Alcohol Abuse Prevention Program elements:

1. The possession, purchasing, selling or consumption of alcoholic beverages on college property (except as authorized in the course of a curricular program, e.g. Culinary Arts), or being present on campus while under the influence of such is strictly prohibited.

- b. Marijuana: Use of marijuana can lead to panic reactions, impaired short term memory, increased risk of lung cancer and emphysema, particularly in cigarette smokers, and impairment of driving ability.
 - c. Cocaine: Addiction, heart attack, seizures, lung damage, severe depression, paranoia, and psychosis. Similar risks are associated with other stimulants, such as speed and uppers.
 - d. Hallucinogens: Unpredictable behavior, emotion instability, violent behavior, and organic brain damage in heavy users, convulsions and coma.
 - e. Narcotics (Heroin, Morphine, Codeine, etc.): Addiction, accidental overdose, risk of hepatitis and AIDS from contaminated needles.
 - f. Inhalants (gas, aerosols, glue, etc.): Loss of consciousness, suffocation, damage to the brain and central nervous system, sudden death, nausea and vomiting, nosebleeds and impaired judgment.
6. Any student or employee may contact OTC's Counseling Services department for crisis intervention or for information about available community resources and referral assistance for drug or alcohol counseling, treatment, rehabilitation or re-entry services. Counseling Services provides educational information on drug and alcohol abuse through the distribution of printed materials, a website that includes substance abuse-related resources and online screenings, as well as scheduled programming throughout the academic year.
 7. In accordance with the Drug-Free Schools and Communities Act Amendments of 1989, this policy will be distributed to all employees on an annual basis. A copy of the annual notification will be provided during new employee orientation to those that begin employment after the distribution date. Each term (fall, spring, summer) all enrolled students will be emailed a document which summarizes the college's Drug and Alcohol Abuse Prevention policy and refers them to the current student handbook and the college's website for complete information.
 8. During each even numbered year, a biennial review of the comprehensive drug and alcohol abuse prevention program will be conducted to determine its effectiveness, make changes where necessary, and ensure that it is consistently enforced. This review will be conducted by a task-force with representatives from the following offices: Human Resources, Safety and Security, Associate Vice-Chancellor for Student Affairs, Dean of Students, Counseling Services and Institutional Research along with possibly other relevant office representatives.

GRIEVANCE PROCEDURE FOR STUDENTS

Students having complaints, other than academic, instructional or grade appeals, which cannot readily be resolved through normal channels, may bring their complaint to the Dean of Students (Karla Gregg, greggk@otc.edu or (417) 447-6966). If the Dean of Students cannot satisfactorily resolve the complaint, the student may request the matter be referred to the college Student Grievance Committee. The chairperson will convene the committee. The committee will hear the complaint and make a recommendation for resolution to the college Chancellor. The decision of the college Chancellor shall be final.

If a complaint is not resolved at the college level, students may choose to file a complaint through one of these external agencies:

Missouri Department of Higher Education: <http://dhe.mo.gov/documents/POLICYONCOMPLAINTRRESOLUTION-reviseddraft.pdf>

The Higher Learning Commission of the North Central Association: <https://www.ncahlc.org/HLC-Institutions/complaints.html>

OTC ONLINE

Online Courses

Our unique section numbering helps students distinguish between online and other types of courses. A "W" in the course section number designates an online course (e.g., ENG-101-W01). Online courses are completed fully online with the exception of one proctored assessment.* Students can take an online course anywhere they have access to the internet—across the U.S. and international locations—at times that are convenient for students' schedules. Courses are available in the fall, spring and summer semesters. Credentialed instructors provide coursework and submission dates throughout the semester to keep students on track. All online courses require at least one proctored assessment*, which may be administered at any OTC location, a pre-approved non-OTC facility, or ProctorU* (a fee-based remote proctoring service). Typical non-OTC proctoring locations include other college or university campuses, public libraries, high schools, and government or military education offices. Non-OTC locations must be pre-approved by the course instructor and OTC Online. For more information, contact OTC Online at (417) 447-8200 or online@otc.edu.

*Some courses require additional proctored exams.

Hybrid Courses

Hybrid courses include a combination of online and traditional classroom instruction. These courses provide students with the flexibility of an online schedule and the benefit of face-to-face interactions with instructors and classmates. Hybrid courses require at least 30% of the instruction be delivered online and are labeled with an "H" in the course section number (e.g., DAS-120-H01). The dates for the classroom meetings are included in the OTC course schedule.

Determining whether a hybrid course is a good fit is important. If students feel they need some face-to-face interaction with their instructors and classmates but do not have the desire to attend a traditional seated classroom, a hybrid course could be a great option. Other reasons students may choose hybrid courses include that hybrids offer the 'best of both worlds,' often satisfying the needs of people with other obligations, transportation challenges, or who just have a curiosity about online courses—all without the commitment of going fully online.

Requirements for Online and Hybrid Courses

To increase success in an online or hybrid course, students should be able to do the following:

- Have access to technology that meets OTC Online's computer requirements for online courses otc.edu/online/10684.php.
- Navigate the internet, send/receive emails with attached files, participate in online discussion forums, process digital files, and download/install software from the internet.

For more information, contact OTC Online (online@otc.edu; 417-447-8200) or visit online.otc.edu.

ATTENDANCE REQUIREMENTS

All students are expected to be present for their scheduled classes and labs. Regular attendance and participation are required. College administration shall develop and implement standards and procedures to be used to monitor and enforce attendance regulations.

Administrative Withdrawal

It is the policy of the college that a student may be administratively withdrawn from a course due to lack of attendance in seated classes or non-participation in online classes. An instructor will administratively withdraw a student from class if that student meets any of the following criteria:

For Seated Classes

1. Not been in attendance for two consecutive calendar weeks of class during a regular 16 week session (equivalent of shorter sessions).

# of Weeks for Class	Maximum Length of Absence
20	2.5 calendar weeks
16	2 calendar weeks
12	1.5 calendar weeks
8	1 calendar week
4	.5 calendar week

2. Total absences equate to 20% of the total semester class time. Practicum, clinical and internship attendance requirements will be determined by the appropriate department.

# of Class Period/ Semester	Examples	Absence at Which a Student Would be Withdrawn
48	16w, 3d/w	10
32	16w, 2d/w; 8w, 4d/w	6
16	16w, 1d/w; 4w, 4d/w	3
24	12w, 2d/w	5
5	1w, 5d/w	1

For Online Classes

1. Does not attend class for 14 consecutive days in a 16-week course or equivalent period in a shorter course without contacting the instructor (per OTC Policy 5.05).

ACADEMIC & COURSE GRADE APPEAL PROCEDURE

In appeals related to final grades, it shall be the responsibility of the student to prove that the grade is incorrect or unjustified. A grade of "F" received due to improper course withdrawal is not subject to this procedure.

Step 1. Informal Resolution: Every reasonable effort should be made by both parties (i.e. student and instructor) to resolve the matter through informal discussion.

Step 2. If adequate resolution is not obtained through informal discussion, the student should proceed as follows:

1. The student will complete a Student Academic/Course Grade Appeal form.
2. A copy of this form will be submitted to appeals@otc.edu. The form will be distributed to the instructor and appropriate administrators.
 - a. For non-final grade appeals this should occur within 30 calendar days following the event
 - b. For appeals that involve final grades, this should occur by the Friday of the fourth week of the next term.

A written decision will be rendered by the instructor electronically to all involved parties within 10 college business days following the filing of the appeal.

Step 3. If the student is not satisfied with the disposition of the appeal at Step 2, within 10 college business days after receipt of the Step 2 response, the following information can be submitted electronically to appeals@otc.edu. The documents will be distributed to the appropriate Dean and administrators.

1. A copy of the written appeal submitted in Step 2
2. Instructor's written response

A written decision will be rendered by the Dean to all involved parties within 10 college business days following the filing of the appeal.

Step 4. If the student is not satisfied with the disposition of the appeal at Step 3, a request for an evaluation by the Academic Appeals Committee can be submitted, within 10 college business days after receipt of the Step 3 response. The following information should be submitted to appeals@otc.edu:

1. A copy of the written appeal submitted in Step 2
2. Instructor's written response
3. Dean's written response

Upon the determination by the committee, the Chair of the Academic Appeals Committee will provide recommendation for resolution to the Vice Chancellor for Academic Affairs within five college business days after the completion of the evaluation.

The Vice Chancellor for Academic Affairs shall make a ruling regarding the appeal within 10 college business days after receipt of the documentation. The Vice Chancellor's decision shall be final and will be delivered in written form to all involved parties.

General Provisions

In no case may an individual involved at an earlier level of the grievance serve on the Academic Appeals Committee. The committee, Dean, and/or Vice Chancellor has the responsibility to interpret the appeal in light of established laws, rules, policies, procedures, and regulations. Copies of the final resolution of the appeal shall be forwarded to the involved parties and to all administrative officials involved in the appeal. Files of resolved appeals shall be maintained in the office of the Vice Chancellor for Academic Affairs.

ACADEMIC FRESH START

Students returning to OTC after an absence of three years or longer, with a cumulative OTC GPA of less than 2.0, may apply for Academic Fresh Start in order to recover from a deficient GPA. Academic Fresh Start will be limited to those cases in which the student's prior record does not reflect his/her current maturity with respect to motivation, attitude and ability.

The following conditions apply to all students seeking Academic Fresh Start:

1. Academic Fresh Start will be granted only once.
2. Academic Fresh Start will apply to OTC coursework only; this excludes all transfer credits.
3. A student must not have been enrolled in any coursework at OTC, excluding Continuing Education courses, for a period of at least three consecutive years.

4. Academic Fresh Start will apply to all OTC coursework attempted prior to the three-year absence. This coursework cannot be used to meet any academic requirement (i.e. graduation, prerequisite and certification).
5. Coursework completed prior to the three-year absence will remain on the student's transcript but will not be calculated into the student's cumulative GPA.
6. Upon re-enrolling at OTC, the student must complete 15 hours of college credits (excluding pass/fail courses) with a GPA of 2.50 or better before beginning the application process.
7. The student has no outstanding debt to the college.

To apply for Academic Fresh Start, the student must submit the following to the Office of the Registrar:

1. A completed Academic Fresh Start application (obtained at the Office of the Registrar).
2. A written request which includes an explanation of how previous grades are negatively affecting future educational goals and an explanation as to how your motivation, attitude and ability have changed since your return to OTC.
3. The Office of the Registrar will present all submitted paperwork to the Academic Review Committee. The committee will review the application and submitted paperwork and notify the student in writing of its decision within 30 days after the committee meets.

Academic Fresh Start is an OTC initiative and may not be recognized by other colleges or universities upon transfer.

ACADEMIC HARDSHIP WITHDRAWAL

Academic Hardship Withdrawal may be granted to a student who experiences non-academic emergencies which interfere or prevent the completion of coursework and cannot be resolved through traditional withdrawal methods. Typically, hardships (non-academic emergencies) tend to fall into one of three categories: medical, personal and financial. Hardship withdrawals are not granted unless there is a compelling reason for such requests.

The Academic Hardship Withdrawal process is not the appropriate venue to resolve or petition coursework or financial matters (e.g., grades, refunds). Such concerns must be addressed to the respective department. In addition, the Hardship Withdrawal process is not an alternative means to drop classes after the published drop date to remove unwanted grades or preclude resulting academic/financial aid actions (warning, probation, exclusion, etc.)

The following conditions apply to Academic Hardship Withdrawal:

1. Students are not eligible for Hardship Withdrawals in any course in which they have completed the course requirements (e.g., taking the final exam or submitting the final project).
2. Students must apply no more than four weeks into the following semester, including the summer semester. This applies whether or not the student is enrolled in the next semester.
3. A Hardship Withdrawal applies to one semester only. Subsequent applications will not be considered.

To apply for an Academic Hardship Withdrawal, the student must submit the following to the Dean of Student Development's office:

1. A completed Hardship Withdrawal application (obtained in Student Services or on the OTC website).
2. A written personal statement of hardship. The written personal statement of hardship should explain to the Academic Review Committee how and/or why the non-academic emergency impacted studies. It is essential that the student gives accurate details about the circumstances surrounding the hardship, date(s) of the emergency, and an account of how the situation specifically prevented the completion of coursework.
3. Required supporting documentation:
 - a. Medical (e.g., physical or psychological emergencies): Type-written correspondence on office letterhead from a physician, psychologist, psychiatrist, or any licensed healthcare professional should be submitted as part of the documentation. The letter should include the dates the student was under the doctor's care, a statement of how the illness/condition interfered with the completion of coursework, and the name-title-phone number of the office representative who can verify the authenticity of the letter. Notes on prescription pads, appointment slips and/or medical consultation forms are not acceptable in lieu of a doctor's letter.
 - b. Personal (e.g., death in the family, family crisis, etc.): All family emergencies require official and/or notarized forms, documents, or correspondence from a state agency, governmental entity, or reputable business. For example, death of a close family relative requires a death certificate and/or obituary with the name/date of the publication.
 - c. Financial (e.g., loss of sole-supporting job, head of household challenges, mandatory job changes): Financial emergencies require the student's employer or supervisor to document the mandatory change(s), the date of the change(s), and the organizational representative who can verify the circumstances of the job change(s), preferably a human resource professional.

The Dean of Student Development will present all submitted paperwork to the Academic Review Committee. The committee will review the

application and submitted paperwork and notify the student in writing of its decision within 30 days after the committee meets.

GRADUATION APPLICATION PROCEDURE

1. Apply for Graduation. Candidates for graduation must make formal application to the Registrar's office for the degree or certificate they intend to receive by the following deadlines:
 - April 1 to graduate after the spring semester
 - July 1 to graduate after the summer term
 - November 1 to graduate after the fall semester
2. Register for and take the necessary exit exam.
3. Attend Financial Aid Exit Counseling. All students graduating from OTC who have borrowed from the Federal Family Education Loan Program (FFEL) are required to complete a student loan exit counseling session.

SEXUAL MISCONDUCT RESOURCES AND PROCEDURES

Ozarks Technical Community College is committed to providing a learning and working environment that promotes personal integrity, civility and mutual respect in an environment free of discrimination on the basis of sex. The college considers sex discrimination in all its forms to be a serious offense. Sex discrimination constitutes a violation of college policy, is unacceptable, and will not be tolerated.

Sexual harassment, whether verbal, physical, visual or digital is a form of prohibited sex discrimination. OTC's Sexual Misconduct policy is currently under review to ensure compliance with the most recent Department of Education requirements. The current policy may be found at otc.edu/policies/27542.php. The specific definitions of sexual harassment and sexual violence, options for reporting instances of sexual misconduct, and available resources are described below.

Definitions and Examples of Gender-Based and Sexual Misconduct

SEXUAL MISCONDUCT

Collectively, sex discrimination, sexual harassment and sexual violence will be referred to as "sexual misconduct" through the remainder of this section and the complaint resolution procedures.

SEXUAL HARASSMENT

Sexual harassment is unwelcome, gender-based verbal, physical, visual or digital conduct that is sufficiently severe, persistent or pervasive that

it unreasonably interferes with, denies or limits someone's ability to participate in or benefit from an OTC educational program, activity or workplace environment. Conduct of a sexual nature constitutes sexual harassment when:

- Submission to such conduct is made or threatened to be made, either explicitly or implicitly, a term or condition of an individual's employment or education
- Submission to or rejection of such conduct by an individual is used or threatened to be used as the basis for academic or employment decisions affecting that individual, or
- Such conduct has the purpose or effect of substantially interfering with an individual's academic or professional performance or creating what a reasonable person would perceive as an intimidating, hostile or offensive employment or education environment.

Some examples of sexual harassment include:

- Pressure for a dating, romantic or intimate relationship
- Unwelcome touching, kissing, hugging, rubbing or massaging
- Pressure for sexual activity
- Sexual innuendos, jokes or humor
- Using sexually explicit profanity
- Sending sexually explicit emails or text messages
- Commenting on a person's body, gender, sexual relationships or sexual activities
- Sexual violence (as defined below)

SEXUAL VIOLENCE

Sexual violence is a form of prohibited sexual harassment. Sexual violence includes physical sexual acts perpetrated against a person's will or where a person is incapable of giving consent because of his or her temporary or permanent mental or physical disability, or because he or she is below the minimum age of consent in the applicable jurisdiction, or because of his or her incapacitation due to the use of drugs and/or alcohol.

Some examples of sexual violence include:

- Rape or sexual assault: sexual intercourse (anal, oral or vaginal) by a man or woman upon a man or woman without consent
- Sexual touching with an object or body part, by a man or woman upon a man or woman, without consent
- Knowingly transmitting a sexually transmitted disease
- Having sexual intercourse with a person who is unconscious because of drug or alcohol use
- Use of the "date rape drug" to effect sexual intercourse or some other form of sexual contact with a person

- One partner in a romantic relationship forcing the other to have sexual intercourse without the partner's consent
- Exceeding the scope of consent by engaging in a different form of sexual activity than a person has consented to
- Coercing someone into having sexual intercourse by threatening to expose their secrets
- Secretly videotaping sexual activity where the other party has not consented

OTHER GENDER-BASED MISCONDUCT

Other forms of gender-based misconduct involves physical harm, extreme verbal abuse, or other conduct that threatens the health or safety of any person on the basis of actual, expressed, or perceived gender identity, including:

- Discrimination – actions that deprive others of access, benefits, or opportunities based on irrelevant criteria
- Hazing – acts likely to cause physical or psychological harm or social exclusion or humiliation
- Bullying – repeated and/or severe aggressive behavior likely to intimidate or intentionally hurt, control or degrade another person physically or mentally

DEFINITION OF CONSENT

Consent is informed, freely given and mutually understood. Consent requires an affirmative act or statement by each participant. Consent is not passive. Lack of consent is a critical factor in determining whether sexual violence has occurred.

- If coercion, intimidation, threats and/or physical force are used, there is no consent.
- If a person is mentally or physically incapacitated or impaired by alcohol or drugs such that the person cannot understand the fact, nature or extent of the sexual situation, there is no consent.
- Warning signs of when a person may be incapacitated due to drug and/or alcohol use include: slurred speech, falling down, passing out and vomiting.
- If a person is asleep or unconscious, there is no consent.
- If a person is below the minimum age of consent in the applicable jurisdiction, there is no consent.
- Consent to one form of sexual activity does not imply consent to other forms of sexual activity.
- Consent can be withdrawn. A person who initially consents to sexual activity is deemed not to have consented to any sexual activity that occurs after he or she withdraws consent.

- Effective consent may not exist when there is a disparity in power between the parties (e.g., faculty/student, supervisor/employee).

DOMESTIC VIOLENCE, DATING VIOLENCE AND STALKING

The crimes of domestic violence, dating violence and stalking can also constitute sexual misconduct when motivated by a person's sex. These crimes, no matter the motivation behind them, are a violation of college policy.

DOMESTIC VIOLENCE

"Domestic violence" includes felony or misdemeanor crimes of violence committed by a current or former spouse or intimate partner of a victim, by a person with whom the victim shares a child in common, by a person who is cohabitating with or has cohabitated with the victim as a spouse or intimate partner, by a person similarly situated to a spouse or the victim under the domestic or family violence laws of the jurisdiction [...], or by any other person against an adult or youth victim who is protected from that person's acts under the domestic or family violence laws of the jurisdiction.

DATING VIOLENCE

"Dating violence" means violence committed by a person:

- who is or has been in a social relationship of a romantic or intimate nature with the victim; and
- where the existence of such a relationship shall be determined based on a consideration of the following factors:
 - The length of the relationship
 - The type of relationship
 - The frequency of interaction between the persons involved in the relationship

STALKING

"Stalking" means engaging in a course of conduct directed at a specific person that would cause a reasonable person to:

- fear for his or her safety or the safety of others; or
- suffer substantial emotional distress.

Campus and Community Resources

As OTC is very concerned about incidents of gender-based or sexual misconduct, and acknowledges that each person experiences and responds in differing ways, there are a variety of formal and informal options for support. Please review the information pertaining to your options for support, assistance, and reporting so that you can make an informed decision based on your personal needs. Your needs may change over time, so please also know that you may choose to utilize different forms of response at different times.

If you have experienced any act of sexual misconduct, our first concern is for your safety and well-being. OTC offers some on-campus resources to assist students who may have been affected by sexual violence or sexual misconduct. Additional services are available off-campus through local communities and online. Individuals are encouraged to utilize any and all on-campus and community resources that may be of assistance to them.

SAFETY AND SECURITY:

If you are concerned about your safety while walking to class or your workplace, you may wish to call the OTC Safety and Security department at 417-447-6911 to request an escort. Safety and Security officers can also assist you in reporting incidents of sexual violence to local law enforcement.

ON-CAMPUS:

If you are not sure if you would like to proceed with formal action (i.e. filing a police report or reporting it to the college), there are informal support options for you while you make that determination. Counseling Services can be a good place to start if you are not sure where to go, and can be helpful if you have already addressed some of your immediate concerns but are looking for additional resources to support you. Counseling Services is a confidential resource and may be reached at counseling@otc.edu and 417-447-6974.

Another OTC resource for support and assistance in determining what course of action you wish to take are the Title IX Officers:

Julia Edwards, Title IX Coordinator, edwardsj@otc.edu, 417-447-8188

Tim Baltes, Title IX Deputy Coordinator, baltest@otc.edu, 417-447-2631

The Title IX officers can discuss formal and informal reporting options, what is involved in an investigation, possible interim measures, remedies and resources.

OFF-CAMPUS/COMMUNITY/ONLINE:

The following resources are not managed by OTC but may be helpful to you, especially in assisting you with a variety of needs that you may have beyond your campus experience.

- The Victim Center 24 hour hotline 417-864-7233 or visit www.thevictimcenter.org.
- Harmony House—Family Violence Center 417-837-7700 or visit www.myharmonyhouse.org
- Know Your IX: Resource for students who have experienced sexual assault, sexual harassment, stalking or intimate partner violence—www.knowyourix.org.
- National Domestic Violence Hotline — 800-799-7233 or visit www.loveisrespect.org

Reporting Options

Individuals may choose to seek action or assistance both on-campus as well as through the surrounding community. If you would like to see action occur because of a person's behavior, you may wish to report the misconduct at some level. Additional or interim remedies may also be provided concurrently and/or in lieu of an investigation or formal process. Mediation may only be used when mutually agreed upon by all involved parties and will not ordinarily be used to resolve complaints of sexual assault. The following situations are examples of reasons why you might choose to report an incident of misconduct:

- To seek formal action against someone, such as removing them from a class or campus, or having a warning on record
- To educate the person about their behavior, through use of the campus conduct or complaint process
- To confront the individual and make your voice heard about how you feel about what happened
- To make the college aware of the behavior in case it is part of a larger pattern
- To receive assistance in changing classes or other on-campus arrangements
- To receive support in coping with a situation

Please note that misconduct exhibited by a student is subject to and may be reported through the student conduct referral process. Misconduct exhibited by employees (faculty or staff) may be reported to Human Resources.

REPORTING CONFIDENTIALLY

If you wish that your identity and the details of an incident be kept confidential, you may find it helpful to speak with on-campus counselors, or off-campus rape crisis resources or clergy members who can maintain confidentiality. Campus counselors are available to help you free of charge, and can be seen on a walk-in basis. You may wish to consider this option if you:

- Would like to know about support and assistance, but are not sure if you want to pursue formal action against the individual, or
- Have questions or would like to process what happened with someone without involving police or campus disciplinary procedures
- Do not want the perpetrator to know that you are seeking help or support

NOTE: Please be aware that even confidential resources have some obligations to report, such as in situations of imminent danger and/or sexual abuse of a minor.

FORMAL/NON-CONFIDENTIAL REPORTING OPTIONS

As OTC wishes to investigate and address gender-based and sexual misconduct, you are encouraged to make formal reports of incidents to designated campus officials (Title IX coordinators, the Dean of Students, the Dean of Student Development, or any Safety and Security officer). Reporting to them is considered official notice to the institution. By reporting formally, you have the right to expect to have your report be taken seriously by the institution and to have it investigated and properly resolved through administrative procedures. Formal reporting also means that only people who need to know will be told and information will be shared only as necessary with investigators, witnesses, the accused individual(s) and advisor(s), or other such persons involved in the processes. Please be aware that if you file a formal report, your name and the relevant reported information will be known to the individual, and will appear in writing in the investigation report. This also means that the case may proceed to a student conduct hearing or other formal process through the college.

YOU MAY WISH TO CONSIDER THIS OPTION IF YOU:

- Would like formal action taken. Examples of formal action can include: filing a report with law enforcement, obtaining a restraining order or order of protection, seeking legal advice, pursuing disciplinary action or requesting that no further action be taken.
- Would like the college to be aware of the situation in case it happens again

The easiest way to file a formal report with the college is to complete an Incident Report found at otc.edu/otccares. Other reporting contacts are:

- Title IX Coordinator, Julia Edwards, 417-447-8188, edwardsj@otc.edu
- Title IX Deputy Coordinator, Tim Baltes, 417-447-2631, baltest@otc.edu
- Safety and Security, 417-447-6911
- Dean of Students, Karla Gregg, 417-447-6966, greggk@otc.edu
- Dean of Student Development, Dr. Loren Lundstrom, 417-447-8197, lundstrl@otc.edu

A person may also file a complaint of sex discrimination with the U.S. Department of Education's Office of Civil Rights regarding an alleged violation of Title IX by visiting www2.ed.gov/about/offices/list/ocr/complaintintro.html or by calling 1-800-421-3481.

BOOKSTORE

The OTC Bookstore provides many services for students, faculty and staff, and is dedicated to assuring the success of the campus community. The bookstore offers a full line of textbooks, both new and used, academically priced hardware and software, reference books and materials, official OTC

apparel and gifts, and convenience items. The bookstore also provides a buyback program in which used textbooks may be sold back to the bookstore for cash. Textbooks may be purchased in store by credit card, cash, or charged to an authorized payment plan. Purchases can also be made online and shipped, or be placed on reservation for in-store pick-up. The OTC Bookstore is located at the corner of Sherman and Brower, just west of the Information Commons on the OTC Springfield Campus.

Fall and spring semester textbooks may be returned for a full refund through the first two weeks of the semester. Summer semester textbooks may be returned for a full refund through the first week of the semester. For more information on our return policies, please visit otc.edu/bookstore. For additional information, you may call the Bookstore at (417) 447-6620.

BULLETIN BOARDS

Bulletin boards for students are located at designated areas at each campus and center location. Bulletin boards for general notices are located on each campus and center. Approval is required before posting on certain designated bulletin boards. Please make certain to read the bulletin board instructions before hanging a poster or flyer, or the item may be removed immediately.

EARLY CHILDHOOD EDUCATION CENTER

The Early Childhood Education Center on the OTC Springfield Campus at 936 North Hampton serves OTC students, faculty, staff and the community. The center is licensed by the State of Missouri Department of Health and Senior Services for children ages 2 to 5. The center is accredited by Missouri Accreditation of Programs for Children and Youth. The Early Childhood Education Center features experienced teachers with professional backgrounds in early childhood education or child development. As a training facility for the college's Early Childhood Development program, students help maintain a low child to teacher ratio. Families, teachers and staff work together to make childcare a positive learning experience for each child, enhancing both a positive self-image and self-esteem.

The Early Childhood Education Center plans developmentally appropriate activities which encourage and stimulate the cognitive, creative, emotional, social and physical development of each child in a safe, secure and nurturing atmosphere. Opportunities are provided for exploration and discovery in a variety of activities such as learning centers, large and small group activities, music, art, cooking, field trips and problem solving. Indoor and outdoor experiences enhance the development and coordination of large and small muscles. Teachers guide children in appropriate social interaction which help the children develop self-confidence in relationships. Families may actively participate in their child's learning experience through voluntary participation in

classroom activities, classroom visits, parent-teacher meetings and as representatives on the center's Parent Advisory Board.

Daytime childcare services are provided according to the college academic calendar, during the fall and spring semesters, when classes are in session. Hours are 7:30 a.m. to 5:30 p.m., Monday through Friday. The Early Childhood Education Center registers children on a semester basis, with efforts made to accommodate the families' variable schedules whenever possible. For additional information, contact the Early Childhood Education Center at (417) 447-8130 or at preschool@otc.edu.

FITNESS CENTER

The OTC Fitness Center provides students and employees with a safe and clean environment to exercise and workout on well-maintained equipment. We provide competent supervision designed to help participants with their health-related goals on the way to creating a healthy lifestyle. The center is free of charge to all currently enrolled students and employees and is equipped with many accessories in addition to a full circuit of the following:

- Nautilus strength machines
- Treadmills
- Elliptical
- Bikes
- Rowing machines
- Free weights

The center has a broadcast vision system of televisions which allows students to watch and listen as they workout. For more information, visit the Fitness Center in Information Commons West on the OTC Springfield Campus.

INSURANCE

Students are encouraged to have health and accident insurance which is available through independent companies at a reasonable cost. For further information, stop by Student Services for brochures from independent companies.

SAFETY AND SECURITY DEPARTMENT

Ozarks Technical Community College is committed to providing the members of the campus community and visitors with the safest and most secure environment possible; however, even the most extensive initiatives cannot succeed without the awareness and cooperation of the community members who study and work on campus.

Developing a safe and secure environment at an academic institution is the responsibility of the entire community – security personnel, faculty, staff and students. Within our community, the OTC Safety and Security department is assigned the primary responsibility of identifying programs, methods and approaches to help the institution maintain a reasonably safe and secure environment.

There is a Safety and Security department office located at each OTC campus and center and can be reached at the following phone numbers, 24 hours a day, seven days a week, 365 days a year. Springfield campus (417) 447-6911; Richwood Valley campus (417) 447-7861; Table Rock campus (417) 447-8943; Lebanon center (417) 447-6689 and Waynesville center (417) 447-6640. Safety and Security officers are on call 24/7 for any emergency at all campuses and centers when the college is closed. 911 should be called immediately in the event of any emergency threatening life, health or property.

The Safety and Security department has approximately 40 security officers and staff serving the campus community at all five OTC locations. Security personnel are responsible for unlocking and locking campus buildings and performing building inspections for fire and other safety-related problems. Security officers begin securing the doors of the buildings (except those to which access is necessary) in the evening at 8:30 p.m. All buildings are locked between 10 p.m. and 6 a.m. Security officers walk through selected buildings each evening to check locked office doors and other security related matters; as well as patrol buildings, parking lots and campus grounds.

LOST AND FOUND

Lost articles should be reported to the Safety and Security department at (417) 447-6911 as soon as possible. Found articles are kept in the Safety and Security department at each campus location. Unclaimed are retained until the end of each semester. All lost and found articles that are not claimed will be given to local charities at the end of each semester. For additional information, contact the OTC Safety and Security department, Information Commons, Room 208, (417) 447-6911.

CHILDREN ON CAMPUS

Ozarks Technical Community College provides environments that promote learning for students who are enrolled. Classroom, studio, library and laboratory settings are not appropriate places for children except when the child is a registered participant in a college-sponsored activity. The campuses are also places of easy access to the public and do not have resources to protect unsupervised children, which could place the child at risk. Therefore, students and visitors are prohibited from leaving a child unattended at any college facility and may be removed from class until appropriate childcare arrangements can be made.

In accordance with Missouri law, any person having reasonable cause to believe that a child has been subjected to child abuse or neglect or observes acts of child abuse or neglect on campus shall report this information immediately to the Missouri Children's Division within the Department of Social Services. The Child Abuse and Neglect hotline is 1-800-392-3738. For more information visit dss.mo.gov/cd/rptcan.htm.

VISITORS TO THE COLLEGE

The college welcomes visitors, guests and prospective students to visit the campus. To ensure safety, visitors may not be in shops, laboratories, or other hazardous areas (as defined by the college or individual college personnel) at any time unless they are escorted by a member of the college staff for brief business visits. Visitors must have instructor approval prior to visiting classrooms or laboratories. For more information, contact the Safety and Security department at (417) 447-6911.

PARKING ON CAMPUS

It is the student's responsibility to understand and follow college traffic and parking regulations. Locations of approved OTC parking areas are included on the OTC Springfield Campus map on the inside back cover. Because of OTC's rapid growth, parking can be a problem; be patient. There is ample parking on the campus and surrounding public streets. It is important that even during times of congested parking, students must follow all parking regulations.

Enforcement of policies regarding the operation of vehicles and parking on all campus locations is an important part of the Safety and Security Department duties. Students found to be in violation will be issued a citation and levied a fine for the following violations:

- Parking in a handicapped parking zone without a proper handicapped decal or license plate displayed.
- Parking in a restricted parking lot/zone/area.
- Parking on any grass area.
- Blocking any legally parked vehicle.
- Parking in a "No Parking" zone.
- Parking in a place not designated for parking. A parking space is designated by two lines, one line on either side of the parking space.
- Parking against the traffic flow.
- Reckless driving. Careless and imprudent driving.
- Blocking or obstructing traffic, street, crosswalk, sidewalk, fire hydrant, building entrance or exit, or another vehicle properly parked.
- Double parking.

- Parking on shoulder of road (except where parking is indicated by official signs).
- Driving in excess of posted speed limits.
- Failure to obey traffic signs.
- Failure to obey directions of campus security officers or police officers.
- Failure to yield the right of way at pedestrian crossings.
- Following too closely.
- Driving while under the influence of alcohol or narcotics.
- Leaving the scene of an accident.
- Operating a vehicle causing loud and unnecessary noise such as loud mufflers, horns, loud music, sound systems, etc.
- Failure to yield right of way to emergency vehicles.
- Failure of two-wheeled vehicles to park in areas designated for them.
- Operating or parking a vehicle in any manner that creates a safety hazard.
- Leaving a vehicle on college premises overnight without notifying the campus Safety and Security department.

Failure to comply with a lawful directive of any one charged with the responsibility of enforcement of the traffic regulations, and failure to pay parking fines owed will incur the following penalties:

- College may prohibit a student from enrolling for classes for the next term.
- College may withhold grades, transcript and deny graduation.

To appeal the issuance of a citation the appeal must be submitted in writing within 10 calendar days from the date of issuance of the citation. For more information regarding parking or to appeal a citation, contact the Safety and Security department, Information Commons, Room 208, (417) 447-6911.

SKATEBOARD AND BICYCLE USE ON CAMPUS

OTC endeavors to provide a safe environment for faculty, staff, students and visitors. The use of skateboards, longboards or skates on any campus or center infringes on our ability to fulfill this safe environment. No person shall use, operate, or ride on a skateboard, longboard or skates in any public parking area on any OTC campus or center, inside any college building or facility, or on any outdoor stairway, ramp, plaza or sidewalk.

Bicycles may only be ridden on campus roads that are open to public vehicles. They should not be ridden on sidewalks, ramps, unpaved areas, or the student plaza. Bicycle riders are required by law to obey the same rules of the road as motor vehicles. Bicycles should be stored in a bicycle

rack and may not be secured to any other structure or fixture such as trees, sign posts or railings.

VENDING MACHINES

Vending machines are operated for the benefit of students and staff. Problems with vending machines regarding refunds of \$2 or less should be directed to Cashier Services located on the second floor of Information Commons on the OTC Springfield Campus or in the president's office at the OTC Richwood Valley Campus. All other problems should be directed to the Administrative Services office at (417) 447-4851.

RECYCLING

The college is committed to establishing a comprehensive, cost-effective program for a broad range of recyclable materials. Each building of the college has a designated area with marked containers (bins) for recycling. Students are encouraged to use the bins in an effort to reduce litter and trash.

Currently, the college recycles the following items:

- White paper
- Mixed paper (glossy magazines, newspapers, etc.)
- Aluminum cans
- Plastic bottles
- Glass

Please use the bins placed around campus and remember it's just a drop in the bin! For details, contact Administrative Services at (417) 447-4854.

CELL PHONE USE

Cell phones have become ubiquitous in our society. Many people do not exercise good judgment in the use of their cell phones. Students should not use cell phones, including sending or reading text messages while in class, laboratories, or while conducting any official business with the college. Cell phones should have the ring feature turned off to avoid disturbing others.

SALES ON CAMPUS

Nothing may be sold on campus by any individual or organization unless through regularly approved distribution channels such as the bookstore or food service, or unless specifically approved by the Chancellor or his/

her designee. The Vice Chancellor for Administrative Services has been designated as the approving authority. College employees and students are prohibited from canvassing students or staff members for the purpose of sale. For additional information, contact Rob Rector, vice chancellor for administrative services, (417) 447-4852, rectorr@otc.edu.

ONLINE SOCIAL NETWORKS

Stay up to date on all things OTC with your favorite social media networks. Use the hashtag #myOTC and share your college experience with us!



ozarkstech



otcedu



ozarkstech



otcvids



+otcedu

Online social networks such as Facebook and Twitter are great innovations and offer students the opportunity to interact with and learn more about an extraordinary array of people. If used in the appropriate manner these online networks take advantage of the Internet as never before. You need to take great responsibility in what you post. No one is going to limit those people authorized to use the Internet from seeing what you post online. In other words, you have absolutely no expectation of privacy. With no expectation of privacy must come the understanding you could expose yourself to someone who may not have the same values, assumptions about appropriate behavior, or that may put yourself at risk as a victim of criminal behavior. You must also be concerned about the privacy of others. Be careful that you do not post anything that could be considered defamatory, libelous, or violate any codes of conduct contained in this handbook.

INFORMATION TECHNOLOGY RESOURCES

ACCEPTABLE USE POLICY

Acceptable use policy for all information technology resources at OTC is based on common sense, common decency, and civility applied to a networked computing environment. Use of OTC information technology resources is a privilege and assumes responsible, ethical and legal conduct by the user. Abuse of this privilege can result in penalties ranging from a reprimand, to loss of access, to referral to College authorities for disciplinary or legal action. Use of the College's computer resources is subject to all College policies and all local, state, and federal laws including but not limited to:

1. RSMo 569.094-569.099 concerning computer crime,

2. RSMo 573.010-573.065 concerning pornography and related offenses, and
3. The federal Communications Decency Act of 1996.

Users have a lessened expectation of privacy when using computer resources owned by public institutions. Issuance of a password or other means of access is not a guarantee of privacy or license for abuse or improper use of OTC's computing resources and facilities. Computer use may be monitored. Criminal, illegal and inappropriate use and all other actions which may be disruptive to the mission and goals of OTC may involve, but are not limited to:

1. Unauthorized Access
2. Intentional Corruption or Misuse of Computing Resources
3. Commercial Use
4. Theft
5. Defamation
6. Obscenity, Pornography, and Child Pornography
7. Copyright Infringement
8. Harassment or Abuse Based on Hate, Race, Ethnicity, National Origin, Disability, Age, Religion, or Gender.

Ozarks Technical Community College provides students, faculty, staff, and members of the public with access to campus and global information resources through networked computing technology to enhance its educational, social, cultural and economic missions and in service to its many constituencies. The primary function of information technology resources at OTC is to support instruction and administration; other activities are secondary and may be subject to limitations. Specific guidelines and procedures for use of OTC information technology resources are available on request from the Instructional Networking Support and Student Services offices and the Learning Resources Center and may be subject to change without notice, given the nature of this technology.

STUDENT COMPUTER RESOURCES

Student Computer Help Desk

The Student Computer Help Desk is located in Information Commons on the OTC Springfield Campus near the main switchboard and staffed by student workers. Students are assisted with technology issues such as wireless Internet access, computer kiosk locations, online registration and student accounts. Visit otc.edu/helpdesk for hours of operation.

The Information Technology Help Desk

The Information Technology Help Desk is located in Graff Hall 203. The Help Desk assists faculty, staff, and students with technology issues. For

assistance, e-mail helpdesk@otc.edu or call (417) 447-7548. For hours of operation, visit otc.edu/helpdesk.

MyOTC

MyOTC is a portal that offers fast and easy access to resources at OTC, with a secure single login. MyOTC is an essential tool to the OTC community and contains the following resources:

ACCESSOTC

This tab provides student access to the following:

- Class registration
- Schedule
- Add/drop classes
- Tuition and fees payment
- Payment plan enrollment
- Financial aid awards
- E-advisor
- OTC Bookstore textbook reservations
- Academic records (grades, transcripts)
- Monthly pay advices
- IRS forms: W-2 and 1098-T

STORAGE

Storage allows students to upload files (up to 20MB) for access on a non-OTC computer with Internet access. To work on the file and save changes, you must download (Right click, Save target as) to a specific location. Once changes are complete and the file is saved, you must go to the specific location and re-upload the file to MyOTC Storage to have access to the most recent file.

RESOURCES

This tab provides access to Library databases and IT resources such as:

- Link to view grades through Pinnacle Gradebook
- Wireless printing link
- OTC Wireless Network instructions
- OTC E-mail instructions for Windows mobile phones and iPhones

EMERGENCY NOTIFICATION

Emergency Notification is a messaging system to alert students, faculty and staff of school emergencies and closings. Every two years, you will be notified to renew your account with the alert system. Make sure to keep your phone number up to date.

WEBMAIL

All currently enrolled students have an OTC e-mail account. There is a 20MB quota, and a 10MB attachment limit. Access to e-mail is available through the MyOTC portal (my.otc.edu) (login and click the Webmail tab). The Webmail tab provides access to OTC e-mail from anywhere there is Internet access. OTC will send critical or important information to the student's OTC e-mail account. The critical or important information includes, but is not limited to, critical deadlines, course information, OTC events, and school closings or shutdowns.

A student e-mail address will be in the following format:

- First initial of your first name (lowercase)
- First initial of your last name (lowercase)
- Student I.D. Number (On Student I.D. Card) @otc.edu;

Example: js0011223@otc.edu

BLACKBOARD

This tab takes you to the Blackboard learning management system, which is used extensively by OTC's online and hybrid courses. Within Blackboard, you can view announcements, access assignments and other course materials, and participate in class discussions. For more information, contact OTC Online (online@otc.edu; 417-447-8200) or visit online.otc.edu.

Login Information

In order to retrieve your OTC user name you can go to my.otc.edu/portal, click on the "What's My User Name?" tab, fill in your last name and either your social security number or student I.D. number.

STUDENT USER NAME FORMAT

- First initial of your first name (lowercase)
- First initial of your last name (lowercase)
- Student I.D. Number (on student I.D. card)

Example: Jill Student (I.D. # 0011223)

User Name: [js0011223](http://my.otc.edu/portal)

Note: You must use all seven digits of your student identification number, including any zeros.

STUDENT DEFAULT PASSWORD FORMAT

- First initial of your first name (uppercase)
- First initial of your last name (lowercase)
- Birthday (mmddyyyy)

Example: Jill Student

Date of Birth: September 23, 1993

Password: [Js09231993](http://my.otc.edu/portal)

PASSWORD GUIDELINES

The first time you log into "MyOTC", the system will prompt you to accept the computer use agreement and create a new password. The password must be a minimum of eight characters long and contain characters from three of the following four categories:

- Uppercase letters (A through Z)
- Lowercase letters (a through z)
- Numbers (0 through 9)
- Special characters (i.e., @, {, !)

PASSWORD HINTS

- Choose your password wisely
- Keep it to YOURSELF
- Do not include your first or last name
- Do not include your date of birth or your student identification number
- Be creative! For instance, use the first letter of each word in a phrase or pick a word and substitute a number for certain letters

Once your password is created, log into "MyOTC" with the following:

- Your User Name
- Your NEW password

NOTE: Each student is required to change his or her password every 120 days. Students can change passwords at any time, but will be required to change his or her password at least every 120 days. An e-mail notification will be sent providing one month, two weeks and one week notice before a password change is required. Students must change password on all devices connecting to OTC e-mail and the wireless network. OTC student e-mail accounts are active for one year unless a student enrolls for the next semester or graduates, then it remains active.

PASS System

The PASS system allows faculty, staff and students to reset their OTC passwords from on and off campus at any time. In order to do this, a profile needs to be created. A profile consists of answering five specific questions that you select. If you do not created your profile, the system will prompt you next time. For more information, visit www.otc.edu/technology/loginHelp.php

Resetting Passwords

Students needing assistance with their computer password on and off campus can contact the OTC IT Help Desk at (417) 447-7548. Upon verification of student information, passwords can be reset back to the default password. Students on the OTC Springfield Campus can visit the Student Computer Help Desk located in the IC Atrium for assistance. Photo I.D. is required for resetting a student's password at the Student Computer Help Desk.

Compromised OTC Accounts

A compromised OTC account happens when students, faculty or staff open unsolicited e-mails or visit non-trusted Internet sites that download programs onto computers/laptops.

Examples:

Visiting a non-trusted website:

Opening a website on the Internet and it installs an e-mail server to your computer. The email server is remotely controlled and begins sending out SPAM e-mail from the infected computer.

Unsolicited E-mail:

An e-mail that looks like it is coming from the OTC Helpdesk that requests your user name and password. The link is clicked and information given; the hacker now has access to your e-mail account and can install a remote controlled e-mail server which begins sending SPAM e-mail to all your contacts.

In either scenario IT will:

- Disable the OTC user's account.
- Attempt to call and leave a message requesting the OTC user contact the Help Desk.
- The Network Security Administrator will explain what occurred and walk the user through resetting their password.

NOTE: It is important to understand that OTC will never ask for your user name and password in an e-mail.

Antivirus Computer Protection

Information Technology recommends the use of the following anti-virus software for personal laptops and home computer use. The software is available at no cost for download through the following links:

For PC computers (Windows XP SP2 and higher), we recommend Microsoft Security Essentials: <http://www.microsoft.com/security/pcsecurity/mse.aspx>.

For Mac computers, we recommend Sophos: <http://www.sophos.com/products/free-tools/free-mac-anti-virus/>.

OTC-WIFI Wireless Network

Wireless Internet access is available in the common areas of classroom buildings on all campuses. Information and setup documentation is available at the IT Computer Help Desk or the Student Help Desk on the Springfield campus. It is your responsibility to know the terms and conditions outlined in the Computer Use Agreement before using OTC-WIFI to access the Internet. Warning: Wireless networks are not secure. Examples of actions you should not conduct on a wireless network include:

- Transferring credit card information
- Using a password to log on to a site or computer

OTC assumes no responsibility for data or personal information compromised through use of its wireless network. The OTC student wireless network conforms to the IEEE 802.11b protocol and standards.

Note: Peer-to-Peer (Limewire, Bittorrent, Bearshare, etc.) file sharing is not authorized.

Wired Internet Access

Wired Internet access is available in the north end of the Information Commons Atrium and in the Information Commons East atrium. Before accessing the Internet, review OTC's Computer Use Agreement.

Computer Printing Kiosks

Printing kiosks are located in various areas on all campuses. Kiosks are available to current students for Internet access and use of Office 2013 for printing.

Open Computer Lab

The Open Computer Lab at each location is recommended for homework, research and Blackboard classes.

OTC Springfield Campus	ICE 223A	(417) 447-7548
OTC Richwood Valley Campus	LSC 216	(417) 447-7700
OTC Lebanon Center	RMC 117	(417) 532-5044
OTC Table Rock Campus	RWP 105	(417) 336-6239
OTC Waynesville Center	WEC 117	(573) 774-5061

Open Computer Lab Guidelines

Computer labs are for curriculum-based studies (programs, research and papers), not for gaming or chatting. Guidelines are as follows:

- Food, drinks and children are not allowed in the computer lab.
- Use headphones with music and keep it turned down.
- Keep conversations quiet and to a minimum.
- Put cell phones on silent, vibrate or turn them off.
- All phone calls should be conducted outside the computer lab.
- Save work regularly and prior to printing to avoid losing any of your valuable documents.

Please call locations for hours of operation and additional information. The Springfield and Richwood Valley hours are located at otc.edu/technology/computer-labs.php.

Student Printing

The IT department implemented software allowing faculty and students 500 free pages each semester, including wireless printing from personal laptops and some touch devices. Pages available at the end of the semester will not carry forward to the next semester. OTC will not refund

unprinted pages at the end of each semester. For more information, call: (417) 447-7548.

Free printing is tabulated as follows:

- Black and white count as 1 page
- Black and white duplex count as 1 page
- Color counts as 10 pages
- Color duplex counts as 10 pages

Students must purchase additional pages after exceeding the first 500 allotted pages. Additional printing purchases can be made on the main OTC Springfield Campus at the Student Help Desk, and at all other locations in the main offices. Black and white prints are 5¢ each and color prints are 50¢ each.

DESIGNATED PRINTING LOCATIONS

OTC Springfield Campus	Wireless Printing
GLZ Student Area	●
GRF 206 Hallway	●
ICE Atrium	●
ICW Atrium	●
ITTC Vending Area	●
LCN 112 Hallway	●
Library, IC 100	●
NKM Lobby	●
Open Computer Lab, ICE 223A	●
Student Help Desk, IC Atrium	●
Tutoring & Learning Center, ICE 212	●
Writing Center, IC 200	●

OTC Richwood Valley Campus	Wireless Printing
Library, LSC 203	●
Open Computer Lab, LSC 216	●
Student Services Kiosk, LSC 122	●

OTC Lebanon Center	Wireless Printing
Open Computer Lab, LEC 107	

OTC Waynesville Center	Wireless Printing
Open Computer Lab, WEC 117	●

OTC Table Rock Campus	Wireless Printing
Library, RWP 105	●
Lobby Kiosk, RWP 101	●

WIRELESS PRINTING

The wireless printing link is located at MyOTC, on the "Resources" tab, under "IT Resources". Pages printed wirelessly are deducted from the 500 free or paid pages.

Network Storage

Students have granted network access that provides storage space to save school-related data. Documents saved to the network are backed up nightly and can be retrieved if accidentally deleted. The network drives available are as follows:

- H Drive—Documents Folder or Home Drive
- S Drive—Instructor and student curriculum storage (content is deleted seven days after the end of the semester).

Note: Documents saved on the OTC network are accessible from campus computers only. Remember that documents saved to the local computer's hard drive (C:drive) and desktop are not backed up.

TRANSFERRING TO A COLLEGE OR UNIVERSITY

OTC offers several transfer degree options, such as the Associate of Arts, for students planning to pursue a Bachelor's degree. In order to make the transfer as seamless as possible, students must plan carefully, in part, by determining: (a) the desired transfer institution based on career objective, major, minor; (b) financial obligations; (c) admissions requirements; (d) after-transfer concerns. Many resources and services exist at OTC to guide students in the transfer process including career counseling, admissions guidance, financial and academic advising, registrar, and disability support services. Admissions and transfer representatives from area colleges and universities visit OTC regularly and some maintain office hours in Student Services to speak to prospective transferring students. For additional transfer resources, visit the website at <http://www.otc.edu/advising/transfer-students.php>.

STUDENT ORGANIZATIONS

Student organizations are formed to meet the needs and interests of the students. As a prerequisite to operation on campus, all such groups must be recognized by the college and must agree to abide by regulations of the Board of Trustees and policies issued by the administration. Every club or organization must have a faculty or staff advisor. No club or organization will be established or allowed to operate in a manner that discriminates against staff members or students in violation of state or federal laws.

Procedures for Official Recognition of a Student Organization

1. Any group of students desiring to form an organization must have a faculty or staff member willing to serve as an advisor to the organization.
2. The faculty or staff member who desires to serve as an advisor to a student organization presents a written request for permission to be a student organization advisor to their supervisor. Upon approval of the supervisor, the faculty or staff member may proceed to assist the organization in being officially recognized.
3. A representative and the advisor of a student organization present a written request for official recognition to the Associate Vice Chancellor for Student Affairs, including the following documentation:
 - a. Constitution/By-Laws with the organization's statement of purpose.
 - b. A list of the organization's officers, which should include but is not limited to the following: President, Vice President, Secretary, and Treasurer.
4. A written recommendation will be sent to the office of the college Chancellor. The Chancellor has final authority to give official recognition to the student organization.

For a current list of officially recognized student organizations visit otc.edu, keyword student organizations.

Phi Theta Kappa

Phi Theta Kappa is the International Honor Society of Two-Year Colleges. To be eligible for membership, a student must complete a minimum of 12 credit hours at the college with a 3.5 GPA or higher. Membership is by invitation only and invitations are sent the second week of the fall and spring semesters. The international office is headquartered in Jackson, Mississippi, and has more than 2 million members in more than 1,200 chapters in nations including the United States, Canada, Germany and Japan.

Phi Theta Kappa's purpose is to recognize and encourage scholarship among two-year college students. To fulfill this purpose, Phi Theta Kappa provides an outlet for leadership development, fellowship among student members, community service, and continuing academic excellence. For more information please contact ptk@otc.edu.

EMERGENCY/CRISIS PLANS

A comprehensive Crisis Management Plan has been developed that includes procedures to be followed in all types of emergencies/crises. Crisis guides are posted in each facility giving quick reference procedures for each emergency, the location of fire extinguishers, first aid kits and spill kits, as well as a map giving directions to exit the building. Please

review the crisis guides, locations of emergency equipment and evacuation routes, before you need them. In addition, students are encouraged to sign up for the text message emergency notification system (see the "Emergency Notification" section for more information). For more information regarding emergencies or injury reports, contact the College Director of Safety and Security at (417) 447-6911.

Automated External Defibrillator (AED)

The college has Automated External Defibrillator (AED) emergency medical devices at all campus and education center locations. In the event of an emergency you should call 911 and the Safety and Security Department at (417) 447-6911 immediately.

Emergency Notification System

A messaging system is in place to alert students and staff of college emergencies and closings. The messages are sent to your cell phone via text. If your cell phone does not accept text messages you can still receive the campus alerts via e-mail. Participation in the messaging system is voluntary, but it is strongly recommended you sign up. To sign up go to "MyOTC" and click on the "Emergency Notification" tab. To complete the sign up process you must reply to the text message or e-mail. OTC will not send spam or advertising through this system.

Fire Procedure

In the event of a fire on campus, audible and visual strobe light alarms will be activated and the buildings will be evacuated. Each classroom has evacuation maps posted and should be reviewed prior to an emergency.

Tornado/Severe Weather Procedures

In the event of a weather-related emergency such as a tornado or severe weather, you will be advised via the OTC Telephone Alert System. All occupants should move to their respective shelter areas and will be required to stay clear of all windows. Administration and the Safety and Security Department will monitor weather conditions. For your own safety, occupants will not be permitted to return to classrooms/labs until the National Weather Service gives the "ALL CLEAR."

REPORTING OF SAFETY AND SECURITY INCIDENTS

Preventing campus crime is a shared responsibility between the college and the campus community. Public apathy is a criminal's greatest ally. Do not assume that someone else has reported criminal activity, or an emergency. Students, faculty and staff are required to immediately report all criminal actions, accidents, injuries, or other emergencies occurring on college property or in college facilities to the Safety and Security department at the campus of occurrence, or by calling (417) 447-6911. If you observe a violent criminal act or emergency; call 911 immediately.

Emergency information concerning criminal actions, accidents, injuries, or other emergencies on college property or in college facilities will be disseminated to faculty, staff, and current and/or prospective students. All reports required by law concerning campus criminal actions or other

emergencies will be compiled and reported to the appropriate agencies. For information about reporting non-emergency behaviors of concern, please refer to the OTC Cares section of this catalog.

Security Cameras on Campus

College property (including computer labs) is under video surveillance. Activity is being recorded, but NOT continuously monitored. For additional information, contact the College Director of Safety and Security at (417) 447-6911.

ANNUAL SECURITY REPORT

The Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act requires all postsecondary institutions participating in Title IV student financial aid programs to disclose campus crime statistics and security information. The act was amended in 1992, 1998, 2000 and 2008. The 1998 amendments renamed the law the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act in memory of a student who was slain in her dorm room in 1986.

The Clery Act is intended to provide students and their families, as higher education consumers, with accurate, complete and timely information about safety on campus so that they can make informed decisions.

To learn more about Jeanne Clery and the Clery Act, please visit securityoncampus.org

In compliance with this act, the OTC, Safety and Security department compiles the Annual Security Report, which contains the aforementioned information. In addition to campus crime statistics, this report also is a resource guide for campus safety services and crime prevention strategies.

To view the Annual Security Report and other information about the Safety and Security department please visit otc.edu/security.

The Annual Security Report includes campus security policy disclosures and campus crime statistics for the previous three calendar years. The report is reviewed and updated annually as one cohesive document and submitted to the U.S. Department of Education by October 1 of each year.

The Annual Security Report is prepared in cooperation with local law enforcement agencies surrounding each campus, OTC Safety and Security department records, the Office of Student Affairs and the Dean of Students, who provide updated information on the College's educational programs and policy disclosures in order to comply with the Clery Act.

An additional purpose of the Annual Security Report is to serve as a mechanism for the Safety and Security department to fulfill its role of informing the campus community of crimes reported to the department, crime prevention tips, victim/witness services, reporting procedures, mass notification procedures, important contact information, and additional information from the department.

The Annual Security Report is available annually through publications, mailings or computer network to all enrolled students, faculty and staff. In addition, each year the Vice Chancellor for Administrative Services distributes an e-mail notification, to all enrolled students, faculty and staff, informing them of the appropriate web site address to access the Annual Security Report by October 1st of each year. Copies of the report may also be obtained at any OTC Campus by contacting the Safety and Security department or by calling (417) 447-6911.

All prospective students may obtain a copy of this report from the Office of Admissions. All prospective employees may obtain a copy of this report from Human Resources.

Timely Warnings to the Campus Community

The *Student Right-to-Know and Campus Security Act* also requires institutions to provide a timely warning to the campus community about crimes that are considered to present a continuing threat to students and employees.

The OTC Safety and Security department, in consultation with campus partners such as the Office of Student Affairs, Communications and Marketing department, will issue timely warnings to give students, faculty and staff timely notification of crimes that the department deems serious or a continuing threat to the campus community to aid in the prevention of similar crimes. Timely warnings are considered a preventative and educational measure as they make the campus community aware of potential dangers to themselves or their property. Timely warnings may also request information that could lead to arrest and conviction of an offender.

Timely warning advisories will be sent by OTC staff in the form of electronic mail directly to all students, faculty and staff on the affected OTC campus, or all campuses, using their institution-provided email accounts, emergency text notification system, press releases, posted material, or making reports available to the campus community and media through the OTC website, newspapers and radio and television news stations.

Daily Crime Log

The OTC Safety and Security department maintains a daily crime log of crimes reported to the department. The log records the date the incident was reported, the date the incident occurred, a description of the incident and where the incident occurred; such as on campus, non-campus building or property, on public property, or within the established jurisdiction of the campus and the disposition, if known. The Daily Crime Log may include reports made to law enforcement agencies, if known.

The OTC Safety and Security department prepares this report in a timely manner so it is available to the campus community and public. The daily crime log is open for public inspection at the Safety and Security department office at any OTC campus or center normal business hours.

GRADUATE SURVEY INFORMATION

180-Day Post-Secondary Follow-up Report of 2012-2013. This table reflects the overall percent of graduates who are in the workforce, continuing their education at a 2-year or 4-year institution, and/or serving in the military in a position related or non-related to the degree or certificate earned. The table also reflects the average salary, by program, of graduates in the workforce in positions related to the degree or certificate earned.

Post-Secondary Programs	Total Graduates Reported	Total Related Placement	Total Placement	% of Total Graduate Placement*	Average Degree or CT Salary**
Accounting	35	20	27	77%	\$35,110
Agriculture – Turf & Landscape Management	10	8	9	90%	\$23,234
Auto Collision Repair Technology	22	10	17	77%	\$18,034
Automotive Technology	67	42	52	78%	\$31,117
Business & Marketing	131	80	95	73%	\$27,373
Computer Information Science	46	33	41	89%	\$41,725
Construction Technology	4	2	4	100%	\$22,880
Culinary Arts	34	29	30	88%	\$22,818
Baking Arts	15	7	12	80%	\$16,786
Dental Assisting	28	24	26	93%	\$26,104
Dental Hygiene	13	12	12	92%	\$58,240
Diesel Technology	28	16	24	86%	\$26,270
Drafting & Design Technology	20	15	17	85%	\$35,110
Early Childhood Development	40	28	34	85%	\$21,528
Electronic Media Production	24	7	18	75%	\$22,526
Emergency Medical Technician	8	8	8	100%	\$29,266
Fire Science Technology	10	9	9	90%	\$30,160
Graphic Design Technology	27	11	24	89%	\$24,523
Health Information Technology	26	15	17	65%	\$27,498
Coding Specialist	33	20	27	82%	\$23,338
Hearing Instrument Science	4	3	4	100%	\$38,480
Heating, Refrigeration & A/C	38	28	34	89%	\$33,613
Hospitality Management	14	3	8	57%	None Reported
Industrial Maintenance Technology	18	12	15	83%	\$28,766
Machine Tool Technology	4	4	4	100%	\$30,514
Machine Tool Specialist	12	9	11	92%	\$26,520
Manufacturing Technology	20	19	19	95%	\$39,686
Medical Laboratory Technician	12	10	10	83%	\$27,248
Networking Technology	27	18	26	96%	\$28,288
Nursing-Practical Nursing	72	67	67	93%	\$32,240
Nursing-Registered Nursing	34	33	33	97%	\$41,475
Occupational Therapy Assistant	21	17	18	86%	\$47,778
Physical Therapist Assistant	23	17	21	91%	\$50,690
Respiratory Therapy	15	14	14	93%	\$38,896
Surgical Technology	15	11	13	87%	\$27,206
Welding Technology	15	10	12	80%	\$30,160
Industrial Welding Specialist	22	12	16	73%	\$29,016
TOTAL	987	683	828	84%	\$30,450

*Based on surveys of August 2012, December 2012, and May 2013 Associate of Applied Science, Associate of Science, and Certificate graduates.

**Based on survey participants who reported salary.

For further information, contact Career Employment Services in ICW 219, call 417-447-6964, or email careeremp@otc.edu.

Total Related Placement = Total of related employment, education, and military status.

Total Placement = Total of related and non-related employment, education, and military status.

INSTRUCTIONAL DIVISIONS

Current as of January 2015

ALLIED HEALTH

SHERRY TAYLOR, DEAN**Allied Health****Simulation Laboratory**

Michelle Howard, Program Coordinator

Dental Assisting

Janet Sell, Program Director

Dental Hygiene

Rebecca Caceres, Program Director

**Emergency Medical Technician—
Paramedic**

Sue Allan, Program Director

Health Information Technology

Susan Kirk, Program Director

Health Sciences

Carolyn Lee, Program Director

Hearing Instrument Sciences

Lynn Royer, Program Director

Medical Laboratory Technology

Tony Evans, Program Director

Nursing—Practical Nursing

Jackie Perryman, Program Director

**Nursing—Practical Nursing
(Table Rock Campus)**

Sheila Kaylor, Program Director

Nursing—Registered Nursing

Tena Wheeler, Program Director

Occupational Therapy Assistant

Rebecca Jenkins, Program Director

Physical Therapist Assistant

Becky Crocker, Program Director

Respiratory Therapy

Doug Pursley, Program Director

Surgical Technology

Angela Enlow, Program Director

**BUSINESS/ACCOUNTING/
ECONOMICS**

LANCE RENNER, DEAN**Business**

Justin (J.C.) Walker, Chair

Accounting

Justin (J.C.) Walker, Chair

Economics

Justin (J.C.) Walker, Chair

GENERAL EDUCATION

LANCE RENNER, DEAN**Arts & Humanities**

Kathlene Allie, Chair

Communication

Kimberly Berry, Chair

Foreign Language

Kimberly Berry, Chair

Criminology

Linda Caldwell, Chair

**Education/Early Childhood
Development**

Angie Miller, Chair

Psychology

Linda Caldwell, Chair

English

Richard Turner, Chair

Mathematics

Alan Papen, Chair

Science—Biological

Marianne Crocker, Chair

Science—Life

Joyce Hill, Chair

Science—Physical

Jen Snyder, Chair

Social Science

Kay Murnan, Chair

TECHNICAL EDUCATION

SHIRLEY LAWLER, INTERIM, DEAN**Computer Information Science**

Tiffany Ford, Chair

Electronic Media Production

George Gibeau, Chair

Networking

George Gibeau, Chair

Fire Science

George Gibeau, Chair

Graphic Design

George Gibeau, Chair

Agriculture

Danelle Maxwell, Chair

Construction

Danelle Maxwell, Chair

Drafting

Danelle Maxwell, Chair

Heating, Refrigeration and AC

Danelle Maxwell, Chair

Industrial Control Automation

Danelle Maxwell, Chair

Machine Tool Technology

Danelle Maxwell, Chair

Manufacturing

Danelle Maxwell, Chair

Welding

Danelle Maxwell, Chair

Culinary

Lisa Gardner, Chair

Hospitality

Lisa Gardner, Chair

Transportation

Lynnar Hamilton, Interim Chair

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B.S.Ed., Missouri State University

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M.S., Missouri State University
B.S.Ed., Missouri Southern State University
B.S., Missouri Southern State University
A.S., Ozark Christian College

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D.Min., Meadville-Lombard Theological
M.A., University of Chicago
B.A., Marietta College

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Custodian

Douglas Akers

Workforce Specialist Program Manager
B.A., Minnesota Bible College

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Ed.S., Missouri State University
M.S.E., Missouri State University
B.S.Ed., Central Missouri

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Paramedic Certificate, Missouri Southern State College

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A.S. Fort Scott Community College

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B.S., Capella University
A.A.S., Ozarks Technical Community College

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B.S.Ed., Missouri State University

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B.S., Missouri State University

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M.A., University of Arkansas
B.A., University of Arkansas

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B.S., Drake University

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Mychere Conn

Accounting Technician
A.A., Baptist Bible College

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Custodian

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B.A., Missouri State University

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Katherine Craft

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Claude Crain

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A.A.S., Ozarks Tech. Comm - Ozark

Marianne Crocker

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M.S., Texas Christian University
B.S., Missouri State University

Rebecca Crocker

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D.P.T., Creighton University
B.S., University of Missouri

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Instructor—Practical Nursing
E.J.D., Concord Law School
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M.A., College of William & Mary
M.S., Columbia University
B.A., Smith College

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B.S.Ed., Missouri State University

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Chasity Daniels

Controller
B.S., Missouri State University

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B.A., Drury University

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