



2023-24

# CATALOG



**ST. CHARLES COMMUNITY COLLEGE**



# 2023-24 CATALOG

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# ADMISSIONS & RECORDS



**CONFIDENTIALITY**

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## CONFIDENTIALITY

### Confidentiality of Financial Records

The General Education Provision Act of 1974, as amended by the Family Educational Rights and Privacy Act of 1974, provides for privacy safeguards for students and families by setting up guidelines for the disclosure of education records and personally identifiable information.

The law provides that financial assistance records of a student may be inspected by that student with the following exception: The Financial Assistance Office will not release to a dependent student the financial records of his or her parents without the written consent of the parents.

### Confidentiality of Student Records

In compliance with the Family Educational Rights and Privacy Act of 1974, St. Charles Community College affords students the right to inspect official records directly relating to them. The act does not permit the college to provide information regarding grades, transcripts or schedules to parents of SCC students without written consent of the student. Consent forms are available in the Enrollment Services Department.

## STUDENT RESPONSIBILITY FOR CATALOG INFORMATION

***This catalog is effective beginning Aug. 21, 2023, for the 2023-24 academic year.*** Each student is responsible for compliance with the information appearing in the catalog. Failure to read the regulations and policies will not be considered an excuse for noncompliance.

## ADMISSIONS POLICY

St. Charles Community College maintains an open-admissions policy providing higher education to all persons who can benefit from its programs and courses. The college serves students from a variety of educational backgrounds. Once admitted to SCC, you may enroll in any course or program as long as individual course prerequisites are met and space for effective instruction is available. The college may guide your enrollment based on Academic Skills Assessments, interviews, previous achievement and other criteria as explained in this section. If you do not meet the standards for admission into college-level courses, you may enroll in developmental courses designed to help you strengthen your skills. These developmental courses may be offered on a credit or non-credit basis. Students applying for the programs with selective admissions criteria may be required to take additional tests for admissions purposes. Before you register for credit courses, you must be admitted to the college. You may apply for admission anytime during the year.

## PLANNING PROGRAMS OF STUDY

### Transfer and Pathway Guides

Students who wish to graduate from SCC and transfer with junior standing should carefully plan a program of study to meet the requirements needed for the major at the transfer institution. Contact the Academic Advising Department concerning academic advising and the transfer process.

Suggested pathway guides are available for college programs. These guides indicate how you may complete your course of studies within a particular time frame. There are also transfer guides available for many majors at area colleges and universities.

## FULL-TIME COURSE LOAD AND FRESHMAN-SOPHOMORE CLASSIFICATION

Students at SCC are classified according to hours enrolled and hours completed. Part-time students earn fewer than 12 hours per semester, while full-time students carry 12 or more. During the summer semester, full-time student status requires 6 or more credit hours (for academic purposes). Full-time status for financial aid in the summer is 12 or more credit hours.

A veteran, in order to receive maximum assistance under the Veterans Education Law (G.I. Bill), must carry at least 12 hours of credit per semester.

COURSE LOAD	FALL/SPRING	SUMMER
Full time	12 or more hours	6 or more
Part time	11 hours or fewer	5 or fewer

A freshman is any student who has completed fewer than 30 credit hours; a sophomore has completed 30 credit hours or more.

Except as indicated below, the maximum number of credit hours for which a student may enroll during the fall or spring is 18. During the summer, the maximum is 10 hours taken concurrently.

It is recommended that the maximum course load for each of the following academic sessions be observed:

### Maximum Course Load

ACADEMIC SESSION	COURSE LOAD
Summer	10 credit hours
Fall	18 credit hours
Spring	18 credit hours

Repeated courses count as part of the course load.

Students with a superior scholastic record may be permitted to register for more than the recommended maximum providing they meet the following GPA prerequisites:

- 2.75 GPA – approved to take 19 hours
- 3.00 GPA – approved to take 20 hours
- 3.50 GPA – approved to take 21 hours

Students wishing to take more than 21 hours must receive special permission from the Academic Affairs Office.

## SENDING TRANSCRIPTS TO SCC AND TRANSCRIPT EVALUATION

When transferring to SCC from another institution, you must complete the following steps:

Have official transcripts from EACH institution that you attended sent to the Enrollment Services Department.

- Credits for courses with passing grades may be accepted at the college's discretion.
- To have the credits taken at other institutions evaluated, submit a Request for Transfer Evaluation Form (PDF) to the Enrollment Services Department and declare a degree.
- Accepted transfer credits will be included in the cumulative hours of credit but will not be calculated in the grade point average.
- You will receive a transfer evaluation report indicating how the courses were accepted. Please allow two weeks for an evaluation from the time the transcripts are received.
- Transcripts sent to SCC will not be automatically reviewed unless the student has requested in writing that a review be made.
- To Appeal Your Evaluation: Send a letter requesting the appeal; documentation (course description and syllabus) supporting your requested change to:

Transcript Evaluator SCC Main  
 St. Charles Community College  
 4601 Mid Rivers Mall Drive  
 Cottleville, MO 63376-2865

- The transcript evaluator will submit your request and documentation to the division dean for review. A decision will be made within 7-10 days. \*If you are unsatisfied with the decision of the Dean you may then submit your appeal to the Vice President for Academic Affairs..
- Missouri's Coordinating Board for Higher Education approved a credit transfer policy that states that any transfer student who believes there has been unfair treatment involving acceptance of college credits may appeal the evaluation. Information regarding the Missouri Department of Higher Education appeal process may be found at:  
<https://www.stchas.edu/academics/grades-transcripts-records/>

## NON-TRADITIONAL CREDIT (AP/CLEP)

### Types of Non-Traditional Credit

Credit granted through one of the non-traditional processes will count towards the total credits earned towards graduation; however, the credit will not be calculated into the cumulative GPA. Colleges or universities to which you may transfer might not accept this credit. Likewise, SCC may or may not accept credit by examination taken elsewhere. Each institution makes its own evaluation of these issues.

### College Level Examination (CLEP)

The College Level Examination (CLEP) allows for the evaluation of knowledge acquired through sources other than traditional college course work. SCC will grant credit for certain subject CLEP examinations according to departmental guidelines. SCC does not grant credit for general CLEP exams.

### College Level Examination (CLEP) Required Scores

COURSE/ SUBJECT AREA	SCORE REQUIRED	HOURS GRANTED	SCC EQUIVALENT
American Government	50	3	POL 101
American History 1	50	3	HIS 101
American History 2	50	3	HIS 102
Management	50	3	BUS 201
Marketing	50	3	BUS 230
Psychology	50	3	PSY 101
Sociology	50	3	SOC 101
Western Civilization 1	50	3	HIS 145
Western Civilization 2	50	3	HIS 146

### Advanced Placement (AP)

Administered through area high schools, Advanced Placement allows a student to gain college credit through subject area testing.

### Advanced Placement Required Scores

COURSE/ SUBJECT AREA	SCORE REQUIRED	HOURS GRANTED	SCC EQUIVALENT
Art History	3	6	ART 1500 & ART 1505
Biology	3	4	BIO 150
Pre-Calculus	3	6	MAT 171
Calculus AB	3	5	MAT 180
Calculus BC	3	10	MAT 180 & 230
Chemistry	3	5	CHM 115
Psychology	3	3	PSY 101
U.S. Government & Politics	3	3	POL 101
U.S. History	3	3	HIS 101
College Statistics	3	4	MAT 157
Introductory Statistics	4,5	3	MAT 175
Computer Science A	3	3	CPT 189
Computer Science Principles	3	3	CPT 115
Environmental Science	3	3	BIO 122
Macroeconomics	3	3	ECO 110
Microeconomics	3	3	ECO 120
Physics 1: Algebra-Based	3	3	General Physics 1 (credit awarded for lecture only)
Physics 2: Algebra-Based	3	3	General Physics 2 (credit awarded for lecture only)

Human Geography	3	3	GEO 100
(credit will not be awarded towards the A.A.T. degree)			
English Language & Composition	3	3	ENG 101
English Literature & Composition	3	3	Humanities Elective
European History	3	6	HIS 145 and HIS 146
World History	3	6	HIS 202 and HIS 203
Comparative Government & Politics	3	3	POL 201

### Departmental Exams

Credit may be granted to a student who has in-depth knowledge of a subject. Discuss with the appropriate department chairperson whether you are prepared to take an exam. The department may refuse to administer the exam based on the evaluation. The fee for the exam must be paid before taking the test. Credits earned by examination will be equated to a specific SCC course and will be designated under the category of “non-course work” on the academic transcript.

### Retroactive Credit

If you are able to enroll in a higher level foreign language course, and upon completion of that course with a 75% or better grade, you may receive credit for the lower-level course or courses that were bypassed. Consult with the department chairperson for more information. Hours awarded vary.

### Military Experience

Experience in the Armed Services may be considered for credit based upon recommendations of the American Council on Education Commission and the student's intended major. Submit a military transcript and you will be awarded 2 credit hours of Physical Education. Contact the financial aid officer/Veterans Services for information on obtaining a military transcript.

### Contact Information

#### ADMISSIONS

636-922-8500 | [admissions@stchas.edu](mailto:admissions@stchas.edu)

#### FINANCIAL AID

636-922-8234 | [finaid@stchas.edu](mailto:finaid@stchas.edu)

#### TRANSFER INFORMATION

[transfer@stchas.edu](mailto:transfer@stchas.edu)

# TUITION & FINANCIAL ASSISTANCE



## FINANCIAL ASSISTANCE

Grants, loans, scholarships, veterans benefits and part-time employment are available to St. Charles Community College students who qualify. Most awards are based on need and require you to maintain a minimum grade point average. Most awards are made for one academic year only. Students who wish to be considered for financial assistance should apply for admission to SCC and submit an application for federal financial assistance.

For detailed information on cost of attendance, payment of tuition and fees, financial assistance, payment plans, third-party billing, refund policy and residency in the district, visit [www.stchas.edu/admissions](http://www.stchas.edu/admissions), [www.stchas.edu/admissions/financial-aid](http://www.stchas.edu/admissions/financial-aid) and [www.stchas.edu/admissions/tuition-payment](http://www.stchas.edu/admissions/tuition-payment).



# STUDENT SUPPORT SERVICES

## DEGREE AUDITS

Degree audits (a calculation of courses needed for a degree or certificate) are available through a student's *mySCC* portal. The degree audit is for advisement purposes only. It is not a substitute for the official degree audit required by the registrar for graduation. It is not to be considered as an application for graduation.

## EMERGENCY SERVICES AND PHONE CALLS

If a person is seriously injured or becomes ill on campus, the community assistance 911 number or the Department of Public Safety (636-922-8545) should be called immediately. In any injury incident, whether or not it is an emergency, the Department of Public Safety should be immediately notified. An incident report must be filed with the Department of Public Safety in all cases of injury and emergency. If emergency transportation and treatment at a health care facility are necessary, all costs are the responsibility of the person who is transported. Students may not receive phone calls at the college through a college phone number except in cases of emergency. In the event of an emergency, you will be contacted in class to return a phone call. The caller will be asked to provide a phone number to the Department of Public Safety and the nature of the emergency in order for the college to determine if the call warrants a student being removed from class. DPS may be reached at 636-922-8545.

## SERVICES FOR STUDENTS WITH DISABILITIES

To apply for services you should schedule an appointment with the Disability Support Services (DSS) manager. The process includes a review of your documentation and an interview with the manager. Accommodations and disability status are approved on a case-by-case basis. Accommodations are arranged to ensure access to all programs/courses at SCC.

New students should apply to the college online and complete any required assessment test or submit ACT scores before meeting with the DSS manager. If accommodations are approved for the assessment tests, they will be provided through DSS and must be scheduled ahead of time.

### Contact Information

636-922-8247 | [dss@stchas.edu](mailto:dss@stchas.edu)  
[www.stchas.edu/academics/student-life/student-services/disability-support-services](http://www.stchas.edu/academics/student-life/student-services/disability-support-services)

## CAREER SERVICES

Career counselors are here to help you with all aspects of your job search as well as career exploration and career research. Many students are undecided about their future major or career. Career counselors can assist you with this decision-making process by providing one-on-one career counseling, administering and interpreting career tests, and teaching you how to use career resources in our office and online.

If you are looking for a job or internship, career counselors can help you write your resume, prepare for job interviews, and learn how to use networking and online resources to secure a job or internship.

### Contact Information

636-922-8244 | [careerservices@stchas.edu](mailto:careerservices@stchas.edu)

### You will find additional information at:

[www.stchas.edu/academics/career-services-center/](http://www.stchas.edu/academics/career-services-center/)

# COLLEGE POLICIES

## ACADEMIC AND GENERAL



**STUDENT RESPONSIBILITIES**

**STUDENT CONDUCT CODE**

**GRADUATION REQUIREMENTS**

**REPEATING A COURSE**

**COURSE AUDITS**

**ATTENDANCE**

**WITHDRAWAL**

## STUDENT RESPONSIBILITIES

We believe that students are responsible for their learning. Similarly, student rights accompany exercise of responsibility for learning.

- Selecting a program of study that is consistent with his/her abilities and interests.
- Selecting coursework that corresponds with his/her program of study and readiness level.
- Enrolling in a schedule of classes appropriate to the time and effort that he/she will allocate to academic requirements.
- Being attentive and participating in class activities.
- Completing all class assignments as directed by the instructor or course syllabus.
- Complying with all college announcements and requirements found in the catalog and official publications.
- Seeking appropriate support services to improve his/her level of academic achievement and to enhance the quality of college life.
- Behaving in a humane and ethical manner both in the classroom and in all communication and contact with the instructor, other staff members and other students.
- Students are expected to attend all class sessions and report to each session on time. If an absence occurs, students are responsible for all work missed. Excessive absences that jeopardize successful completion of the course (as outlined in the course syllabus) may result in a lowered or failing grade in the class.

## STUDENT CONDUCT CODE

Students enrolling at SCC are to conduct themselves in a manner compatible with the educational purposes of the college. If you fail to do so, the college will institute appropriate disciplinary action, which may include dismissal. Specifically, students are expected to comply with federal, state and local laws concerning activities prohibited on public school property and at college-sponsored functions. Civil disobedience, assault, forgery, gambling, immoral conduct, libel, theft, use and sale of alcoholic beverages and other dangerous drugs, vandalism, or possession of firearms, explosives, dangerous chemicals, or other weapons are prohibited while on college property or at a college-sponsored event. Students who hold a conceal and carry permit or endorsement may not bring firearms on campus. The full student code of conduct policy and procedures can be found at [www.stchas.edu/about-scc/administration/board-policies/410studentconductdisciplineanddueprocess](http://www.stchas.edu/about-scc/administration/board-policies/410studentconductdisciplineanddueprocess)

## GRADUATION REQUIREMENTS AND PROCEDURES

### Graduation Requirements

The requirements for graduation at St. Charles Community College are those specified in the college catalog at the time a student enrolls or of any subsequent catalog as long as the student enrolls in at least one fall or spring term each academic year (August-May). If you change programs, you will be expected to meet the graduation requirements of the catalog in effect at the time of your program change. (See sections on Graduation Requirements in the chapter on Academic Programs – Degrees and Certificates in this catalog.)

In the case of curriculum changes, academic deans may make adjustments to your educational plan to meet program requirements. Every effort will be made to count earlier course work in a way most beneficial to the student in fulfilling current requirements. Students are subject to all policies/regulations stated in the most recent catalog.

### Applying for Graduation

Students who will complete requirements for a degree must apply for graduation. "Apply to graduate" means you want your degree conferred and officially recorded on your academic transcript.

To be eligible for graduation from SCC, you must adhere to the following:

- **Check the current academic calendar for priority application deadlines.** The calendar can be found online a [www.stchas.edu/events](http://www.stchas.edu/events).
  - 1) Please note, the priority deadline allows the Office of Admission Registration and Records ample time to review applications, to ensure that all requirements for graduation have or will be met, and to allow students the time to make course adjustments before the close of registration of their final semester.
 

Application received after the priority deadline will be processed, however you may not have ample time to make course adjustments in order to meet program requirements.
  - 2) Spring and Summer graduates who wish to participate in the May commencement ceremony must file an application for graduation by March 1.
- Apply for graduation by login into my SCC Portal > SCC Connection > Student > Student Self-Service > Apply for Graduation.

In order to graduate students must:

- Meet all requirements of the degree/certificate program as outlined in the college catalog, with at least 15 of these credit hours earned at SCC.
- Earn a cumulative grade point average of at least 2.0 and be in good academic standing.
- Resolve all financial obligations to the college and return all library and college materials.

- Students who plan to earn a degree at SCC will need to meet the requirements of the catalog in effect when they first enrolled or of any subsequent catalog as long as they enroll in at least one fall or spring term each academic year (August-May).
- If you decide to postpone your graduation to a future semester please email [enrollment@stchas.edu](mailto:enrollment@stchas.edu) before your original anticipated date of graduation.

### Issuance of Diplomas

Diplomas earned for December and May graduates will be mailed in June based on the address provided on the Graduation Application. August diplomas will be mailed in September. Degrees earned will be posted on the student transcript at the time all degree requirements are verified as met. Students may request a transcript by accessing the National Student Clearinghouse link at [www.getmytranscript.com](http://www.getmytranscript.com) (a third-party website).

### Commencement Exercises

Commencement exercises are held annually in May. Students who are graduating in May and graduates from the previous December may participate in the exercises, along with those who have applied for and been tentatively accepted to graduate in the coming August.

### Earning More Than One Degree

- A separate application must be filed for each degree or certificate whether they were earned at the same time or during different semesters.
- The specific requirements of each degree or certificate must be completed.
- If two degrees or certificates are earned at the same time, the graduation fee for the second is \$10. If the second degree or certificate is earned in another semester, the \$30 graduation fee must be paid each semester that a degree is awarded.

## REPEAT OF A COURSE

You may repeat one time any credit course for which you did not receive at least a "C" for graded courses, or a grade of "P" for pass/fail courses. Exceptions to this rule include PE activity courses and some music courses. If the course can be repeated and have multiple attempts count toward graduation hours, then all attempts count in the cumulative GPA. "Ws" or withdrawals from a course are treated as an attempt. All grades from each attempt are recorded on the transcript, but SCC will use the higher grade to calculate the grade point average (GPA). Some colleges and universities will recalculate the grade point average for admissions purposes and include both grades earned. Students wishing to attempt a course for the third time must speak with an advisor or the department chair to obtain permission to enroll. In general, courses may not be attempted a fourth time. Where courses are a part of a sequence (English, math, reading), students may enroll in or audit the prerequisite course in order to acquire the prerequisite skills necessary for a successful fourth attempt. For financial assistance eligibility, all attempts will count towards maximum hour limits and completion ratio.

## AUDITING A COURSE

If you wish to attend a course without taking an examination or receiving credit for the course, you may register on an audit basis. Students who register on an audit basis will pay the regular tuition rate and must meet the course prerequisites or receive special permission from the instructor. Audit students must adhere to the same policies and procedures as all students. If you wish to change from audit to credit or from credit to audit after the course is under way, you must request the change. Email the Office of Admissions Registration Records at [enrollment@stchas.edu](mailto:enrollment@stchas.edu) from your SCC email within the first four weeks of classes (prorated for different parts of term). Students cannot count audited courses to establish full-time status and will not fulfill degree/certificate requirements.

## CHANGE OF ACADEMIC PROGRAM

Students wishing to change their degree/certificate must complete a Change of Degree form. It can be found at [www.stchas.edu/academics/academic-advising](http://www.stchas.edu/academics/academic-advising).

## ATTENDANCE

### General Policy

The college has no plan of recognized class absences. You should attend all class meetings in which you are enrolled. Excessive absence may be sufficient cause to fail the course. For distance classes, "attendance" will be defined as active participation in the course as described in the individual course syllabus. The final decision as to what constitutes excessive absence from a class is left to the instructor and will be outlined in the course syllabus. Students should discuss any absences with their instructor. Students who are absent from classes while participating in college-sponsored events or activities will not be automatically penalized for the absence. It is the expectation that students will normally be excused from class except under extraordinary circumstances.

Students must complete the following procedures to determine the outcome of their absence for each missed class:

- 1) Students are responsible for notifying their instructors in advance of the absence. When possible, contact your instructor at least two weeks before the event/activity. Face-to-face interaction between student and instructor is preferred.
- 2) **In advance of the activity, students must provide their instructor(s) a completed Event Form for each missed class. Student Event Forms are available to student athletes in CC 104 and for members of clubs and organizations in CC 102. This form will help you discuss the potential effects of the absence with your instructor.**
- 3) Students are expected to make up any classwork in a time frame to be determined by the instructor. When a test is scheduled for the day of the expected absence, students should discuss with their instructor how to make other arrangements to take the test. You should use the Assessment Center for make-up tests.
- 4) If you fail to inform the faculty in advance of the expected absence, the absence may or may not be accommodated at the instructor's discretion.
- 5) **Absences for the student-related activity may be reflected in your attendance record.**

## WITHDRAWAL FROM COURSES

Students who wish to withdraw from a course or courses may do so within the mySCC Portal > SCC Connection > Student Planning or by emailing [advising@stchas.edu](mailto:advising@stchas.edu) for assistance. Please review the [www.stchas.edu/events](http://www.stchas.edu/events) calendar for deadlines. Please contact the Financial Aid office to determine how withdrawing from the course may impact your financial aid award.

Discontinuing a course will affect your transcript (permanent record) as follows: A student who withdraws officially from a course before the end of the 12th week of class meetings will receive a "W" for the course. If you simply stop attending class and do not officially withdraw from the course, you will receive an "F" grade for the course. The approved withdrawal dates are prorated for courses fewer than 16 weeks in length and for interim and summer sessions. The Veterans Administration may interpret the withdrawal from courses differently, so veterans should check with the Financial Aid Office.



# GRADING AND ACADEMIC HONORS



**GRADING SYSTEM**

**GRADE GRIEVANCE POLICY**

**REVIEW OF ACADEMIC STATUS**

**SATISFACTORY ACADEMIC  
PROGRESS**

**SCHOLASTIC HONORS**

**TRANSCRIPTS**

## GRADING SYSTEM

Grading symbols and corresponding grade points are listed below. Some symbols are not grades but designations of administrative action regarding course work.

**A (Excellent)** Student has demonstrated outstanding proficiency in mastering course objectives. (4 grade points per credit hour in computation of grade point average.)

**B (Above Average)** Student has demonstrated above-average proficiency in mastering course objectives. (3 points)

**C (Average)** Student has demonstrated average proficiency in mastering course objectives. (2 points)

**D (Below Average)** Student has demonstrated below-average proficiency in mastering course objectives. (1 point)

**F (Failing)** Student has not demonstrated a minimum passing proficiency in mastering course objectives (0 points)

**I (Incomplete)** Due to extenuating circumstances, a student may be given an extension of time by the instructor to complete course objectives. The "I" can be issued only at the discretion of the instructor. Once you are issued an "I," you may not withdraw from the course in which the "I" was issued. The "I" must be made up by the midterm of the following semester or it will become an "F" grade. The incomplete must be completed with the instructor who originally issued the "I." The "I" does not count in computation of grade point average.

**P (Pass)** Student has completed the course work satisfactorily. This mark is used for most developmental courses and other courses at the discretion of the college. (Does not count in computation of grade point average.)

**R (Re-enroll)** The student has made satisfactory progress but should re-enroll until the course objectives are completed. This mark is used for developmental courses only. (Does not count in computation of grade point average.)

**V (Audit)** Student's final registration in the course was on an audit basis (no credit). (Does not count in computation of grade point average.)

**W (Withdrawal)** A "W" is not a grade, but an indication of administrative action requested by the student. You must officially withdraw from a course **based on the dates listed on the Academic Calendar found at [www.stchas.edu/events](http://www.stchas.edu/events)**. For courses shorter than the normal semester, the withdrawal period will be prorated. A "W" may not be changed to a grade. (Does not count in computation of grade point average.)

**AW (Administrative Withdrawal)** The grade of "AW" will be assigned to those courses that have been administratively withdrawn from a student's record. A grade of "AW" will not count in a student's grade point average but will count in their overall completion ratio. See Board Policy 439 Withdrawal.

**Z** Administratively unable to give a grade at this time.

## SCHOLASTIC HONORS

Full-time students who earn a 3.50 or above semester grade point average in 12 or more semester hours of credit and part-time students who earn at least a 3.50 GPA for each cumulative 12 credit hours will be named to the Dean's List. Developmental courses, pass/fail courses, transfer credits and courses in which incomplete grades were received do not count toward the credit hours.

The Associate of Arts, Associate of Fine Arts, Associate of Arts in Teaching, Associate of Science, and Associate of Applied Science degrees and certificates will be granted with the following designations to candidates of superior academic achievement:

Cumulative GPA of at least 3.50-3.74 – Honors

Cumulative GPA of 3.75-3.99 – High Honors

Cumulative GPA of 4.0 – Highest Honors

Indication of scholastic honors at the commencement ceremony will be based on the previous fall semester cumulative GPA.

## GRADE GRIEVANCE POLICY

Students with concerns about grades should, whenever possible, first approach the instructor for clarification/resolution. Concerns about final grades must be expressed by the end of the next regular semester. If, after contacting the instructor, you still have concerns, you should address them to the appropriate program coordinator and/or department chair who will work with you and the instructor to resolve the matter. If the department is unable to remedy the situation, you should address your concerns to the division dean. If resolution still is not achieved, you may then appeal in writing to the Office of Academic Affairs and Enrollment Management. Anonymous calls or unsigned letters will not be acknowledged. Only concerns expressed by the individual student involved will be addressed.

## REVIEW OF ACADEMIC STATUS

The college recognizes that extenuating circumstances occur from time to time that may warrant further review of a student's academic progress. Contact Academic Advising for more information.

NOTE: Students with concerns about course requirements, class procedures, teaching styles or grades should follow the procedure outlined in the Procedure for Addressing Student Concerns section of the catalog.

## SATISFACTORY ACADEMIC PROGRESS

St. Charles Community College (SCC) has academic standards that all students must meet. It is necessary for students to maintain a sufficient grade point average (GPA) to graduate from SCC, transfer to a four year college or start a career. Students who meet SCC academic standards are making "satisfactory academic progress" and are in "good standing."

To stay in "good standing," students must maintain a cumulative GPA of 2.0 after they have earned 15 college credit hours or more at SCC.

## WHAT HAPPENS IF MY GPA DROPS BELOW 2.0?

**Academic Warning:** A student is placed on academic warning when their cumulative GPA falls below 2.0 for the first time.

**Academic Probation 1:** A student is placed on mandatory Academic Probation 1 when their cumulative GPA falls below 2.0 in two consecutive terms. The student is also required to enroll for classes with an academic advisor after completion of the workshop and is limited to a maximum of 13 credit hours.

**Academic Probation 2:** A student is placed on Academic Probation 2 when their cumulative GPA remains below a 2.0 for a third consecutive term. The student is also required to enroll for classes with an academic advisor after completion of the workshop and is limited to a maximum of 13 credit hours.

**Academic Suspension:** A student is placed on Academic Suspension when their cumulative GPA remains below a 2.0 for a fourth consecutive term. Students will be prohibited from enrolling in courses the semester following the suspension status.

**Academic Dismissal:** A student will no longer be allowed to attend SCC unless they are academically reinstated by (the Director of Advising Services). Students must wait a minimum of one semester to appeal this status (summer semester excluded). For a detailed list of procedures to apply for academic reinstatement, contact the Director of Advising Services at 636-922-8723.

## WHAT IF I GET SUSPENDED?

Suspended students will be required to sit out a semester to reevaluate their academic plans. Students may return the following semester. A meeting with the Director of Academic advising is required to enroll in classes. Enrollment is restricted to 13 credit hours.

Students wishing to appeal the layout period and remain continuously enrolled, may make an appointment to speak with the director of advising services at 636-922-8723.

After returning from suspension students are required to maintain a 2.0 term GPA each semester that they attend SCC. A meeting with an academic advisor is required to enroll for classes.

Students who do not earn at least a 2.0 term GPA will be academically dismissed.

## TO REQUEST A TRANSCRIPT

We offer electronic transmission of official transcripts. Students can track their status and be notified via text or email when the transcript has been sent.

You may request a transcript by accessing this link: [www.GetMyTranscript.org](http://www.GetMyTranscript.org). In addition, in-person requests can be made at the Office of Admissions, Registration and Records.



# STUDENT RIGHTS



**ADDRESSING STUDENT CONCERNS**

**EXTERNAL RESOLUTION OPTIONS**

**NON-DISCRIMINATION  
AND EQUAL OPPORTUNITY**

**SEXUAL MISCONDUCT, NON-DISCRIMINATION,  
APPEAL & GRIEVANCE**

## PROCEDURE FOR ADDRESSING STUDENT CONCERNS

Students with concerns about course requirements, class procedures, teaching styles or grades should whenever possible first approach the instructor for clarification/resolution. Concerns about final grades must be expressed by the end of the next regular semester. If, after contacting the instructor you still have concerns, you should address them to the appropriate program coordinator and/or department chair who will work with you and the instructor to resolve the matter. If the department is unable to remedy the situation, you should address your concerns to the division dean.

Individual departments may establish their own internal procedures for handling student concerns. If the division is unable to remedy the situation, you may then appeal in writing to the Office of Academic Affairs. Anonymous calls or unsigned letters will not be acknowledged. Only concerns expressed by the individual student involved will be dealt with.

Employees of the college may not legally discuss matters pertaining to non-minor students with parents, spouses, friends or classmates without a signed release from the student. The student complaint form can be found at [www.stchas.edu/academics/college-catalog/student-rights](http://www.stchas.edu/academics/college-catalog/student-rights).

## EXTERNAL RESOLUTION OPTIONS

The Missouri Department of Higher Education serves as a clearinghouse for post-secondary student complaints. The MDHE complaint policy may be found at [dhe.mo.gov/documents/POLICYONCOMPLAINTRESOLUTION-REVISEDRAFT.pdf](http://dhe.mo.gov/documents/POLICYONCOMPLAINTRESOLUTION-REVISEDRAFT.pdf). This web page contains information about the complaint process and includes instructions for how to file a formal complaint. Note that the policy provides that a student who wishes to file a complaint with the department must first exhaust all formal and informal avenues provided by the institution to resolve disputes.

The Office for Civil Rights (OCR) enforces several Federal civil rights laws that prohibit discrimination in programs or activities that receive financial assistance from the Department of Education. A complaint can be filed by anyone who believes that an education institution that receives Federal Financial assistance has discriminated against someone on the basis of race, color, national origin, sex, disability, or age. The complaint form can be found at <http://www2.ed.gov/about/offices/list/ocr/complaintintro.html>.

Additionally, students may also contact:  
Higher Learning Commission  
230 South LaSalle Street, Suite 7-500  
Chicago, IL 60604-1411  
800-621-7440; Fax: 312-263-7462

## NON-DISCRIMINATION AND EQUAL OPPORTUNITY

The College is committed to non-discrimination and equal opportunity regarding the treatment of students, faculty and staff. In compliance with Title IX of the Education Amendments of 1972, Title VII of the Civil Rights Act of 1964, Section 504 of the Rehabilitation Act of 1973, and other federal and state laws and regulations, the College adheres to a strict non-discrimination policy in student admission, educational programs, activities, and employment regardless of race, color, sex, sexual orientation, religion, creed, national origin, ancestry, age, veteran status, disability, genetic information, or any other status protected under applicable federal, state, or local laws. The college is an Equal Opportunity Employer and Educator.

The college is accredited by the Higher Learning Commission, [www.hlcommission.org](http://www.hlcommission.org).

## SEXUAL MISCONDUCT, NON-DISCRIMINATION, APPEAL & GRIEVANCE

### SEXUAL MISCONDUCT

Sexual misconduct is prohibited and the College provides comprehensive procedures in compliance with Title IX of the Education Amendments of 1972, Violence Against Women Act (VAWA), Title VII of the Civil Rights Act, Jeanne Clery Act, and similar laws and regulations.

"Sexual Misconduct" is a broad term that includes sex discrimination and any non-consensual behavior of a sexual nature committed by force or intimidation or that is otherwise unwelcome. Sexual misconduct includes behaviors such as sexual assault, rape, domestic violence, dating violence, sexual harassment, sexual exploitation, and stalking.

For additional information on:

- **Evidence Preservation**
  - **Law Enforcement**
  - **Ex-Parte Orders of Protection**
  - **Confidentiality**
  - **How to file a report of concern**
  - **Intentional false reportings**
  - **Rights of involved parties in cases involving allegations of sexual harassment and sexual violence**
- and reports made in bad faith**
  - **Sanctions and Appeals**
  - **Education/Training**
  - **Risk Reduction**
  - **Retaliation and Definitions**

Please consult the Student Handbook —"Sexual Misconduct, Non-discrimination, Appeal & Grievance" section at [stchas.edu/studenthandbook](http://stchas.edu/studenthandbook).

### Contact Information

TITLE IX COORDINATOR  
636-922-8723 | [olopez@stchas.edu](mailto:olopez@stchas.edu)

DIRECTOR OF STUDENT LIFE  
636-922-8238 | [studentlife@stchas.edu](mailto:studentlife@stchas.edu)



# ACADEMIC PROGRAMS

## DEGREES AND CERTIFICATES

Instructional programs at St. Charles Community College offer you several options in attaining long-term or short-term educational goals.

If your goal is to complete requirements for the first two years of a bachelor's degree, you can enroll in SCC's college transfer program. The transfer program contains courses that parallel the first two years of study at many four-year institutions.

Another option is the career-technical program pathway. You can earn a certificate or degree that leads directly into the job market upon graduation from SCC. These one- and two-year programs allow you to match your career skills with jobs available in today's rapidly changing work force.

If you would like to take college-level classes but are unable to come to campus on a regular basis, you may take advantage of distance learning courses such as online courses.

A listing of courses offered for a specific semester can be found at: [www.stchas.edu/online](http://www.stchas.edu/online)

Of course, not everyone comes to college seeking a degree, so SCC offers you the option to take credit classes one at a time to update job skills or for personal enrichment. Or, if you need to improve basic reading, writing and math skills before enrolling in college-level work, we encourage you to find out more about developmental programs and special study skills classes.

Descriptions of SCC credit courses begin on p. 105 or can be found online. Look under the "Academics" section online at: [www.stchas.edu](http://www.stchas.edu)

The academic skills assessment is required before enrolling in math or English courses. If a student places into lower-level courses than are required for his/her degree, the student needs to first enroll in such course before enrolling in the required courses.

*For a complete listing of Academic Programs and degree plans visit our website at: [www.stchas.edu/academics/majors-degrees-certificates](http://www.stchas.edu/academics/majors-degrees-certificates)*

Transfer Pathways Guides may be found on the college website: [www.stchas.edu/pathways](http://www.stchas.edu/pathways)

To compare specific career and salary information for each degree or certificate offered by SCC go to:

<https://scorecard.mo.gov/scorecard/>

The Missouri Scorecard is a publicly available website that combines a searchable program inventory with additional information on program costs, program student demographics, graduate outcomes (earning and employment) and a program comparison function.

**Once on the site:**

- Type in St. Charles Community or select SCC from the school drop down.
- After selecting St. Charles Community College you may also select degree/credential type (Associate Degree or Certificate) or field of study. If you do not make a selection in those fields you will get all fields offered by SCC



## PROGRAM DEFINITIONS

### Associate of Arts (A.A.)

The A.A. is awarded to students completing the requirements of the academic transfer program with a minimum of 64 semester hours including general education core requirements. It generally parallels the first two years of a Bachelor of Arts degree at a four-year institution.

### Associate of Arts in Teaching (A.A.T.)

The A.A.T. is awarded to students completing the requirements of the academic transfer program for future educators. It is a 64-hour program that includes a general education core and elective/institutional requirements. It generally parallels the first two years of a Bachelor of Arts degree at a four-year institution.

### Associate of Fine Arts (A.F.A.)

The A.F.A. is awarded to students completing the requirements of a specifically identified academic program available within this degree. Minimum credit hours vary based on the specific program. The Associate of Fine Arts degree is a transfer degree for students planning to pursue a bachelor's degree with a concentration in studio fine arts, graphic design, Art Education or music at either a four-year college, university or art school.

### Associate of Science (A.S.)

The A.S. is awarded to students completing the requirements of a specifically identified academic program available within this degree. Minimum credit hours required varies based on the specific program. It generally parallels the first two years of a Bachelor of Arts degree or a Bachelor of Science degree at a four year institution.

### Associate of Applied Science (A.A.S.)

The A.A.S. is awarded to students completing the requirements of one of the career/technical programs. Minimum credit hours required varies based on the specific program. Although this degree is not intended to be a transfer degree, some of the courses will transfer to four-year institutions.

### Certificate of Achievement (C.A.)

Certificates are awarded upon completion of a prescribed sequence of courses for each program. Normally, two semesters are necessary to complete the requirements for a one-year certificate.

### Certificate of Specialization (C.S.)

This certificate is for people who desire information or skills in a specific area related to their current job. They usually can be completed in a short period of time.

## PROGRAM REQUIREMENTS

Per college policy - individual students may be required to take COL 101.

The Academic Skills Assessment is required before enrolling in Math or English courses. If a student places into lower-level courses than are required for his/her degree, then the student needs to first enroll in such courses before enrolling in the required courses.

Any student entering a public institution of higher education for the first time after July 2019 who is pursuing an associate's or bachelor's degree from such institution shall successfully pass an examination on the provisions and principles of American civics with a score of seventy percent or greater as a condition of graduation from such institution.

### Graduation Requirements

- Complete a minimum of 15 credit hours at SCC
- Earn a 2.00 cumulative grade point average.
- Students earning the Associate of Arts Degree must complete one of the following courses: BTC/CPT 103, CPT 115, ART 1105, EDU 220 or test for competency.

# ST. CHARLES COMMUNITY COLLEGE

## DEGREES

A.A.S.	Agriculture
A.A.S.	Baking & Pastry
A.A.S.	Business Administration (Accounting, Finance, Management, Marketing, General Business)
A.A.S.	Business Technology
A.A.S.	Computer-Aided Drafting
A.A.S.	Computer Science (Computer Programming, Management Information Systems, Database Management, Data Analytics, Animation and Gaming, Global Information System Technician)
A.A.S.	Culinary
A.A.S.	Cyber Security
A.A.S.	Emergency Medical Science
A.A.S.	Exercise Science
A.A.S.	General Technology
A.A.S.	Graphic Design
A.A.S.	Information Technology
A.A.S.	Interdisciplinary Technology
A.A.S.	Law Enforcement
A.A.S.	Manufacturing Technology
A.A.S.	Mechatronics
A.A.S.	Multimedia and Web Development
A.A.S.	Networking
A.A.S.	Occupational Therapy Assistant
A.A.S.	Paraprofessional Studies
A.A.S.	Paraprofessional Studies Autism Specialist
A.A.S.	Skilled Trades
A.A.S.	Supply Chain and Logistics
A.A.S.	Welding
A.A.T.	Early Childhood Education Transfer Program
A.A.T.	Elementary Education Transfer Program
A.A.T.	Secondary Education Transfer Program
A.F.A.	Creative Writing
A.F.A.	Graphic Design
A.F.A.	Music
A.F.A.	Studio Art
A.F.A.	Theatre
A.S.	Agriculture
A.S.	Biology
A.S.	Chemistry
A.S.	Computer Science
A.S.	Engineering
A.S.	Information Systems
A.S.	Nursing
A.S.	Nursing-LPN Bridge

## CERTIFICATES

C.A.	Applied Linguistics
C.A.	Baking & Pastry
C.A.	Business Administration (Accounting, Finance, Management, Marketing, General Business)
C.A.	Computer-Aided Drafting (CAD)

C.A.	Computer Applications
C.A.	Culinary
C.A.	Customer Service
C.A.	Data Management
C.A.	Desktop Publishing
C.A.	Entrepreneurship
C.A.	Entry Level Welding
C.A.	Global Studies
C.A.	Information Technology
C.A.	Law Enforcement
C.A.	Manufacturing Technology
C.A.	Medical Assisting
C.A.	Medical Billing and Coding
C.A.	Multimedia
C.A.	Plumbing & Pipefitters Pre-Training
C.A.	Practical Nursing
C.A.	Programming
C.A.	Personal Trainer
C.A.	Retail Banking
C.A.	Web Design
C.S.	Accounting
C.S.	Advanced Welding
C.S.	Architectural Drafting
C.S.	Banking/Finance
C.S.	Basic Welding
C.S.	Business of Art and Design
C.S.	Computer-Aided Drafting (CAD)
C.S.	Computer Security
C.S.	Creative Writing
C.S.	Cyber Security
C.S.	Data Analytics
C.S.	Design Media
C.S.	Desktop Support
C.S.	Diversity
C.S.	Economics for Managers
C.S.	Electrical-Electronics Systems
C.S.	English As A Second Language
C.S.	English Fundamentals
C.S.	Entrepreneurship
C.S.	Facilities Maintenance Systems
C.S.	Foundations of Web Development and Design
C.S.	GIS Specialist
C.S.	Heating, Ventilation, & Air Conditioning (HVAC-R) Systems
C.S.	Hydraulics & Pneumatics Systems
C.S.	IT Project Management
C.S.	Management
C.S.	Manufacturing Technology, Certified Production Technician
C.S.	Marketing
C.S.	Mechanical Design & Drafting
C.S.	Multimedia
C.S.	Musical Theatre
C.S.	Networking
C.S.	Personal trainer
C.S.	Photo - Imaging - Video
C.S.	Print Media
C.S.	Programming
C.S.	Robotics & Automation Systems
C.S.	Software Productivity



- C.S. System Administration
- C.S. Web Development
- C.S. Web Media

**TRANSFER PATHWAYS**

- A.A. Art /Graphic Design
- A.A. Business
- A.A. Communication
- A.A. Computer Science
- A.A. Criminal Justice
- A.A. Economics
- A.A. English
- A.A. Foreign Language (Arabic, French, German, Spanish)
- A.A. Geography
- A.A. History
- A.A. Liberal Arts
- A.A. Mathematics
- A.A. Music Major (Voice, Piano, or Instrumental)
- A.A. Political Science
- A.A. Psychology/Sociology
- A.A. Social Work
- A.A. Theatre
  
- A.A.T. Early Childhood Education Transfer Program
- A.A.T. Elementary Education Transfer Program

- A.A.T. Secondary Education Transfer Program
  
- A.F.A. Graphic Design
- A.F.A. Creative Writing
- A.F.A. Music
- A.F.A. Music Education
- A.F.A. Studio Art
  
- A.S. Agriculture
- A.S. Biology
- A.S. Chemistry
- A.S. Computer Science
- A.S. Cyber Security
- A.S. Engineering
- A.S. Information Systems

## GENERAL EDUCATION

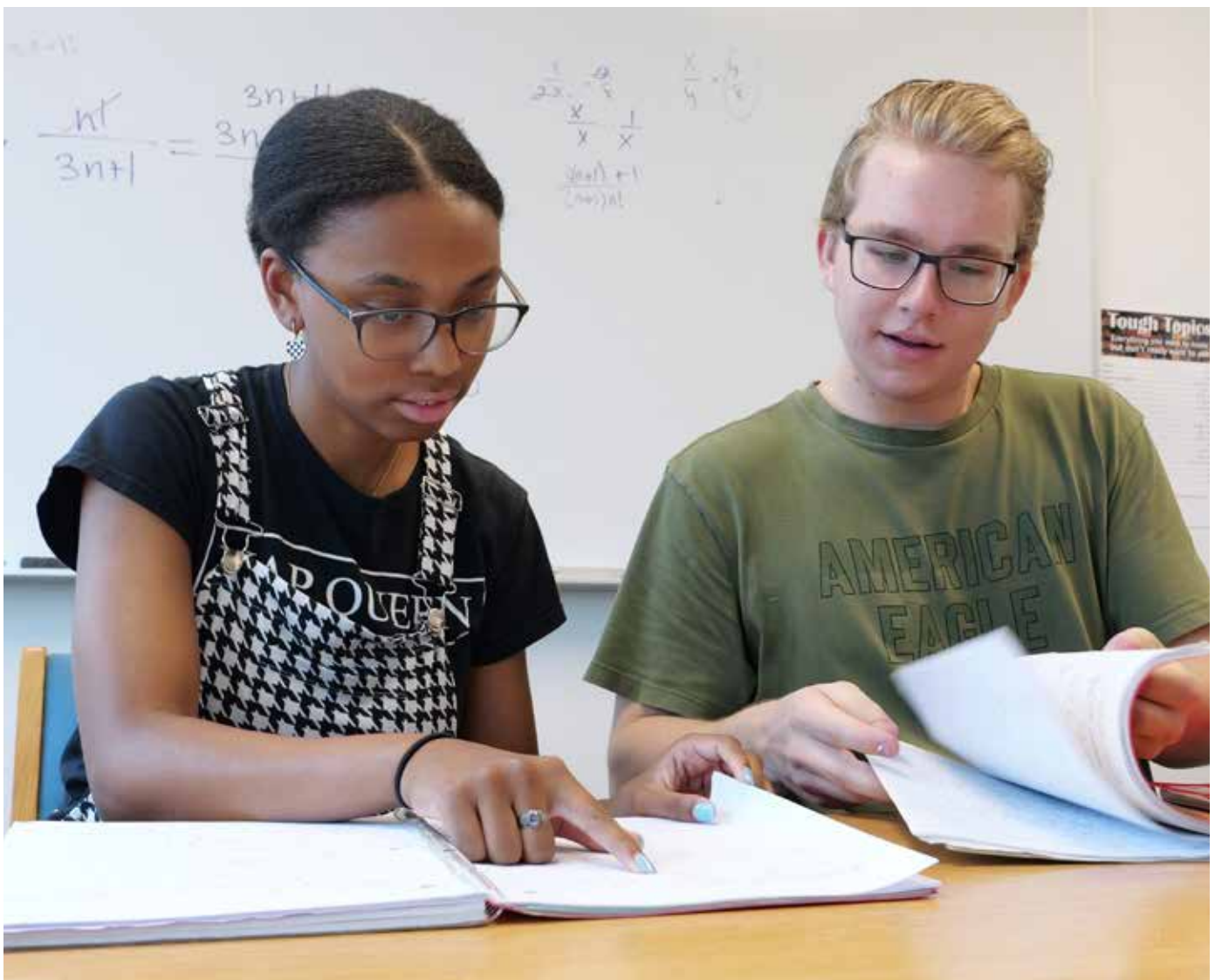
Senate Bill 997 established the Higher Education Core Transfer Curriculum Act (Sections 178.785-789 RSMo), which directs the Coordinating Board for Higher Education to develop a standard core transfer curriculum and a common course numbering equivalency matrix for lower-division general education courses. The core transfer curriculum, known as CORE 42, is a framework for general education that all Missouri public two-and four-year institutions of higher education were required to adopt beginning the fall semester of 2018. The goal of the CORE 42 is to facilitate the seamless transfer of academic credits. The completion of the CORE 42 at any public institution of higher education will transfer to every other public institution of higher education in the state and substitute for the receiving institution's general education requirement. Individual courses that comprise the CORE 42 are guaranteed to transfer one-to-one among all public (and participating independent) colleges and universities in Missouri.

Courses within the CORE42 are assigned a MOTR number (Missouri Transfer) and will be designated by this logo:

The framework for Missouri's CORE 42 is designed for students to obtain the basic competencies of Valuing, Managing Information, Communicating, and Higher-Order Thinking through the completion of at least 42-semester hours distributed across the broad Knowledge Areas of Communications, Humanities & Fine Arts, Natural & Mathematical Sciences, and Social & Behavioral Sciences.

A Course Transfer Tracker was developed to allow students, parents, and other interested parties to see how general education courses will transfer to other public colleges and universities in Missouri. The Course Transfer Tracker is located on the MDHE Journey to College website.

At SCC the CORE 42 (General Education) transfer curriculum applies only to the Associate of Arts degree. The Associate of Fine Arts, Associate of Arts in Teaching, Associate of Science, Associate of Applied Science and the Certificate of Achievement have specific General Education courses within each degree plan. Courses in those degree plans that are included in the CORE 42 curriculum are guaranteed to transfer one-to-one among all public (and participating independent) colleges and universities in Missouri.





## ASSOCIATE OF ARTS GENERAL EDUCATION REQUIREMENTS



### SOCIAL & BEHAVIORAL SCIENCES: OBJECTIVES

#### State-Level Goal

To develop students' understanding of themselves and the world around them through study of content and the processes used by historians and social and behavioral scientists to discover, describe, explain, and predict human behavior and social systems. Students acquire an understanding of the diversities and complexities of the cultural and social world, past and present, and come to an informed sense of self and others. As part of this goal, institutions of higher education include a course of instruction in the Constitution of the United States and of the state of Missouri and in American history and institutions (Missouri Revised Statute 170.011.1).

#### Suggested Competencies

Students will demonstrate the ability to:

- Explain social institutions, structures, and processes across a range of historical periods and cultures.
- Develop and communicate hypothetical explanations for individual human behavior within the large-scale historical and social context. • Compose unified, coherent, and developed paragraphs.
- Draw on history and the social sciences to evaluate contemporary problems.
- Describe and analytically compare social, cultural, and historical settings and processes other than one's own.
- Articulate the interconnectedness of people and places around the globe.
- Describe and explain the constitutions of the United States and Missouri.

**Nine credits minimum from at least 2 disciplines, including at least one Civics course (denoted by \* )**

#### Anthropology

ANT-101

ANT-102

#### Communications

COM-102

#### Criminal Justice

CRJ-140

#### Economics

ECO-100

ECO-110

ECO-120

#### Geography

GEO-100

#### History

HIS-101 (\*)

HIS-102 (\*)

HIS-103 (\*)

HIS-104 (\*)

#### Political Science

POL-101 \*

POL-201

POL-210

#### Psychology

PSY-101

PSY-210

#### Sociology

SOC-101

SOC-202

SOC-215

SOC-224

### WRITTEN COMMUNICATION: OBJECTIVES

#### State-Level Goal

To prepare students to communicate effectively with writing that exhibits solid construction resulting from satisfactory planning, discourses, and review. Students will engage in the writing process including drafting, editing and revision for success in the classroom and workforce.

#### Suggested Competencies

Students will demonstrate the ability to:

- Express critical and analytical thought through reading and writing.
- Compose sound and effective sentences appropriate to one's audience and purpose.
- Compose unified, coherent, and developed paragraphs.
- Compose unified, coherent, and developed texts.
- Use a recursive writing process to develop strategies for generating, revising, editing, and proofreading texts.
- Produce rhetorically effective discourse for subject, audience, and purpose.
- Exhibit effective research and information literacy skills.

**Six credit hours minimum**

ENG-101

ENG-102

ENG-115

## ASSOCIATE OF ARTS GENERAL EDUCATION REQUIREMENTS (CONTINUED)

## ORAL COMMUNICATIONS: OBJECTIVES

**State-Level Goal**

To prepare students to communicate effectively in a variety of contexts. Students will understand communication is symbolic, relational, collaborative, strategic, adaptive, and creative. They will recognize the role and importance of communication in developing meaning and understanding; increasing knowledge; enacting change; solving problems; and developing, maintaining, and transforming relationships; among other goals and outcomes.

**Suggested Competencies**

Students will demonstrate the ability to:

- Identify communication perspectives, principles, and concepts.
- Recognize the role and importance of communication given various purposes, audiences, relationships, groups, and contexts.
- Create and adapt messages relevant and appropriate to various purposes, audiences, relationships, groups, and contexts.
- Present message effectively.
- Critically reflect on their own communication and the communication of others.

**Three credit hours minimum**

COM-101  
COM-104  
COM-106  
COM-110  
COM-200  
ESL-105

## NATURAL SCIENCES: OBJECTIVES

**State-Level Goal**

To develop students' understanding of the principles and laboratory procedures of the natural sciences (Life and Physical) and to cultivate their abilities to apply the empirical methods of scientific inquiry. Students should understand how scientific discovery changes theoretical views of the world, informs our imaginations, and shapes human history. Students should also understand that science is shaped by historical and social contexts.

**Suggested Competencies**

Students will demonstrate the ability to:

- Explain how to use the scientific method and how to develop and test hypotheses in order to draw defensible conclusions.
- Evaluate scientific evidence and argument.
- Describe the basic principles of the natural world.
- Describe concepts of the nature, organization, and evolution of living systems.
- Explain how human interaction(s) affect living systems and the environment.

**Seven credit hours minimum from at least two disciplines, including one course with a lab component (denoted by \*)****Astronomy**

PHY-130  
PHY 130/131 \*

**Biology**

BIO-105  
BIO-105/106 \*  
BIO-108  
BIO-120/121 \*  
BIO-122  
BIO-123 \*  
BIO-150 \*

**Chemistry**

CHM-101  
CHM 101/103 \*  
CHM-107  
CHM-115 \*

**Geography**

GEO-103

**Geology**

PHY-105  
PHY-105/107 \*  
PHY-125  
PHY--125/127 \*

**Life Science**

BIO-110  
BIO-110/113 \*  
BIO-115  
BIO-130  
BIO-250A/250B \*  
BIO-260/260L \*

**Physical Science**

PHY-111  
PHY-111/113 \*

**Physics**

PHY-150/153 \*  
PHY-250 \*

## MATHEMATICAL SCIENCES: OBJECTIVES

### State Level Goal

To develop students' understanding of fundamental mathematical concepts and their applications. Students should develop a level of quantitative literacy that would enable them to make decisions and solve problems and which could serve as a basis for continued learning.

### Suggested Competencies

Students will demonstrate the ability to:

- Describe contributions to society from the discipline of mathematics.
- Recognize and use connections within mathematics and between mathematics and other disciplines.
- Read, interpret, analyze, and synthesize quantitative data (e.g., graphs, tables, statistics, survey data) and make reasoned estimates.
- Formulate and use generalizations based upon pattern recognition.
- Apply and use mathematical models (e.g., algebraic, geometric, statistical) to solve problems.

### Three credit hours minimum

MAT-155

MAT-157

MAT-158

MAT-162

MAT-171

Mathematical sciences courses that use one of the pathway courses as a prerequisite will meet the general education credit for math.

For example, Calculus meets the General Education math requirement since Pre-Calculus Algebra is a prerequisite

Courses higher than MAT 171 will be granted three credit hours towards the CORE 42. Additional credits will count as General Elective credit.



**ASSOCIATE OF ARTS GENERAL EDUCATION REQUIREMENTS (CONTINUED)**

**HUMANITIES & FINE ARTS: OBJECTIVES**

**State Level Goal**

To develop students' understanding of the ways in which humans have addressed their condition through imaginative work in the humanities and fine arts; to deepen their understanding of how that imaginative process is informed and limited by social, cultural, linguistic, and historical circumstances; and to appreciate the world of the creative imagination as a form of knowledge.

**Suggested Competencies**

Students will demonstrate the ability to:

- Describe the scope and variety of works in the humanities and fine arts (e.g., fine and performing arts, literature, speculative thought).
- Explain the historical, cultural, and social contexts of the humanities and fine arts.
- Identify the aesthetic standards used to make critical judgments in various artistic fields.
- Develop a plausible understanding of the differences and relationships between formal and popular culture.
- Articulate a response based upon aesthetic standards to observance of works in the humanities and fine arts.

<b>Nine credit hours minimum, from at least two disciplines</b>	ESL-107	PHL-102	LIT-272	ART-2401	ENG-210
	ESL-108	PHL-160	LIT-273	ART-2500	MUS-105/106/107
	<b>Film</b>	<b>Religion</b>	LIT-274	ART-2501	MUS-115/116/117
<b>Art</b>	THE/COM-123	LIT-207	<b>Performance</b>	ART-2550	MUS-145/146/147
ART-1001	THE-124/COM-124	PHL-201	(Choose only three credits from this Group)	ART-2551	MUS-175/176/177
ART-1505	<b>Music</b>	<b>Literature</b>	ART-1105	ART-2600	MUS-185/186/187
ART-1500	MUS-101	LIT-200	ART-1200	ART-2601	THE-115
<b>Civilization</b>	MUS-109	LIT-205	ART-1205	ART-2700	THE-128
HIS-145	MUS-111	LIT-210	ART-1300	ART-2701	THE-140
HIS-146	MUS-112	LIT-215	ART-1400	ART-2750	THE-220
<b>Foreign Language</b>	MUS-231	LIT-216	ART-1400	ART-2751	THE-220
ARB-101	MUS-232	LIT-220	ART-2110	ART-2800	THE-240
ARB-102	<b>Theater</b>	LIT-222	ART-2120	ART-2810	COM-116
FRN-101	THE-122	LIT-223	ART-2130	ART-2900	
FRN-102	THE-229/MUS-229	LIT-230	ART-2140	ENG-201	
GRM 101	THE-230-MUS-230	LIT-240	ART-2170	ENG-206	
GRM 102	<b>Philosophy</b>	LIT-250	ART-2310	ENG-207	
SPN-101	BUS 105	LIT-260	ART-2400	ENG-208	
SPN-102	CPT 105	LIT-271		ENG-209	
	PHL-101				

**SCC Institutional Requirements to Earn an Associate of Arts Degree:**

- Complete a minimum of 64 credit hours, including 42 credit hours of general education courses adhering to the minimums as listed above.
- Complete one of the following courses: ART-1105, BTC-103, CPT-103, CPT-115, or EDU-220.
- Earn accumulative grade point average of 2.0.
- Complete a minimum of 15 credit hours at SCC.

## Agriculture AAS

Subject	Course	Title	Credits
<b>General Education Requirements (16)</b>			
Mathematics	MAT 105	Applied Math or higher	3
	ENG 101 or	English Composition I or	
Communication	ENG 102 or	English Composition II or	3
	ENG 115 or	Technical Writing or	
	COM 101 or	Introduction to Communications	
	COM-104	Small Group Communication	3
	COM 106	Public Speaking	
Social Science	COM 110	Interpersonal Communications	
	HIS 101 or	U.S. History to 1877 or	
	HIS 102 or	U.S. History Since 1877 or	
	HIS 103 or	African American History to 1877	3
Natural Science	HIS 104 or	African American History Since 1877	
	POL 101	American Government	
	CHM 101	Introduction to Chemistry	
	BIO 105	Essentials of Biology	
	BIO 108	Trends in Science	
	BIO 110	Human Biology	
	BIO 122	Environmental Science	3
	PHY 105	Environmental Geography	
	PHY 111	Introduction to Physical Science	
	PHY 125	Introduction to Physical Geography	
PHY 130	Astronomy		
	COL-101	College Success Seminar	1
<b>Core Course Requirements (12)</b>			
	AGR 100	Agricultural Industries	1
	AGS 170/171 or	Plant Sciences/Lab or	4
	AGB 180	Animal Science	3
	AGB 110	Agricultural Economics	4
<b>Elective/Option Course Requirements (33-34)</b>			
	BUS 101	Introduction to Business	3
	ACT 101	Applied Accounting	3
	ECO 120	Principles of Microeconomics	3
	BUS 201	Principles of Management	3
	BUS 230	Principles of Marketing	3
	LGM 101	Logistics & Supply Chain 1 or	3
	LGM 215	Introduction to Data Analytics	3
	BUS 232	Advertising & Sales Promotion	3
	BTC 103 or CPT 103	Microcomputer Applications	3
	<b>Choose any 2 from:</b>		
	AGR 105	Sustainable Agriculture & the Environment	3
	AGR 110	Introductory Forestry	3
	AGR 120	Precision Agriculture	3
	AGR 200	Agribusiness Internship	3
	AGS 210/211	Soils with Lab	4
	Any CHM, BIO or PHY		3-4

**Total Credit Hours 61-62**

**Animation & Gaming AAS**

Subject	Course	Title	Credits	
<b>General Education Requirements (16 credits)</b>				
Mathematics	MAT 105 (or higher)	Math elective	3	
Communication	ENG 101, 102, or 115	Writing Elective	3	
	COM 101, 104, 106, or 110	Communication Elective	3	
Natural Science	CHM 101 or BIO 105 or GEO 103 or BIO 108 or BIO 110 or PHY 105 or PHY 111 or PHY 125 or PHY 130	Introduction to Chemistry Essentials in Biology Physical Geography Trends in Science Human Biology Environmental Geology Introduction to Physical Science Introduction to Physical Geology Astronomy	3	
	HIS 101 or HIS 102 or HIS 103 or HIS 104	US History to 1877 US History Since 1877 African American History to 1877 African American History since 1877	3	
	POL 101 POL 102	American Government State & Local Government		
	Institutional Elective	COL 101	College Success Seminar	1
	<b>Computer Science Core Requirements (14 credits)</b>			
		CPT 103	Microcomputer Applications	3
		CPT 105	Ethics in Technology	3
		CPT 135	Computer Science 1 with Python	4
	CPT 200	System Analysis and Design	3	
	CPT 207	Career Development for Technology Professionals	1	
<b>Animation &amp; Gaming Core Course Requirements (18 credits)</b>				
	CPM 170	Computer Graphics (Adobe Illustrator)	3	
	CPM 180	Digital Audio Editing (Adobe Audition)	3	
	CPM 210	Digital Photo Editing (Adobe Photoshop)	3	
	CPM 220	3D Modeling and Animation (Sketchup)	3	
	CPT 104	Update to Animation & Gaming w/Unity	3	
	CPT 182, 185, 189	Programming Elective	3	
	CPT 261	VR Application Development w/ Unity	3	
<b>Animation &amp; Gaming Elective Courses (12 credits)</b>				
	ART 1105	Digital Art Studio	3	
	ART 2130	Digital Imaging & Illustration	3	
	ART 2160	Animation & Motion Graphics	3	
	CPM 120	Introduction to Multimedia (Adobe Creative Cloud)	3	
	CPM 160	Frontend Web Development (HTML/CSS/JavaScript)	3	
	CPM 190	Backend Web Development (JavaScript/XML/PHP/MySQL)	3	
	CPM 250	Motion Graphics (Adobe After Effects)	3	
	CPT 188	Javascript	3	
	CPT 106	Operating Systems	3	
	CPT 121	Basics of Data Communications	3	
	CPT 160	Mobile Apps Development	3	
	CPT 182	Computer Science II w/C++	3	
	CPT 185	C# Programming	3	
	CPT 189	Computer Science II Ww/Java	3	
	CPT 198	Computer Science Internship	1-3	
	CPT 281	Introduction to Data Structures with C++	3	
	MUS 101	Foundations of Music	3	
	CPT 287	Introduction to Data Structures with Java	3	

**Total Required Credit Hours: 60 credit hours**

## Baking and Pastry AAS

Subject	Course	Title	Credits
<b>General Education Requirements (16 credits)</b>			
Mathematics	MAT 105	Applied Math or higher	3
Writing	ENG 101	English Composition I	3
	COM 110	Interpersonal Communication	3
Social Science	HIS 101 or HIS 102 or HIS 103	U.S. History to 1877 U.S. History Since 1877 African-American History to 1877	3
	HIS 104	African-American History Since 1877	
	POL 101	American Government	
	BIO 105	Essentials of Biology	3
	College 101 Requirement	COL 101	College Success Seminar
<b>Core Course Requirements (42 credits)</b>			
	CUL 110 A	Intro to Baking for Career Path Lec	1
	CUL 110 B	Intro to Baking for Career Path Lab	4
	CUL 101	Sanitation and Safety for Food Service	1
	CUL 107	Sustainable Food Systems for Culinarians	3
	CUL 111	Breads	3
	CUL 112	Pastries	3
	CUL 113	Chocolates & Sugar	3
	CUL 114	Cake Baking and Decorating	3
	CUL 116	Plated Desserts & Presentation	3
	CUL 130	Hospitality Business and Service	3
	CUL 140	Principles of Nutrition	3
	CUL 292	Topics in Culinary	3
	CUL 290A	Capstone	1
	CUL 290B	Internship	5
	BUS 105	Business Ethics	3
<b>Elective/Option Course Requirements (3 credits)</b>			
		Any additional course for a combination of 3 credits	3
<b>Total Required Hours: 61 credits</b>			

## Business Administration AAS

Subject	Course	Title	Credits
<b>General Education Requirements (17)</b>			
Mathematics	MAT 121	Intermediate Algebra (or higher)**	4
	ENG 101 or	English Composition I**	
Communication	ENG 102 or	English Composition II	3
	ENG 115	Technical Writing	
	COM 101	Introduction to Communication	3
Social Science	HIS 101 or	U.S. History to 1877 or	
	HIS 102 or	U.S. History Since 1877 or	
	HIS 103 or	African American History to 1877	3
	HIS 104 or	African American History Since 1877	
	POL 101	American Government	
	CHM 101 or	Introduction to Chemistry	
Natural Science	BIO 105 or	Essentials in Biology	
	BIO 108 or	Trends in Science	
	BIO 122 or	Environmental Sciences	3
	PHY 105 or	Environmental Geology	
	PHY 111 or	Introduction to Physical Science	
	PHY 125 or	Introduction to Physical Geology	
	PHY 130	Astronomy	
	COL 101	College Success Seminar	1
<b>Core Course Requirements (35 credits)</b>			
	ACT 110	Financial Accounting I*	4
	ACT 130	Managerial Accounting I	3
	BUS 101	Introduction to Business	3
	BUS 105	Business Ethics	3
	BUS 201	Principles of Management	3
	BUS 220	Principles of Finance	3
	BUS 230	Principles of Marketing	3
	BUS 298	Business Administration Capstone	1
	CPT/BTC 103 or	Microcomputer Applications	
	CPT 115	Intro to Data Processing	3
	ECO 110	Principles of Macroeconomics*	3
	ECO 120	Principles of Microeconomics*	3
	Any ACT	Any Accounting Course	
	Any BUS	Any Business Course	
Core Elective - Choose One	Any ECO	Any Economics Course	3
	GEO 120	Introduction to GIS	
	MAT 175	Introductory Statistics	
	BTC 170	Spreadsheet Applications (Excel)	
<b>Choose one of the following options (9 credits):</b>			
Management Option:	BUS 204	Total Quality Operations Management	
	BUS 206	Human Resource Management	9
	BUS 210	Organizational Behavior	
	BUS 232	Advertising/Sales Promotion	



Marketing Option:	BUS 236	Consumer Behavior	9
	BUS 238	Personal Selling	
	ACT 115	Computerized Accounting	
Accounting Option:	ACT 210	Intermediate Accounting I	9
	ACT 240	Individual Income Tax Accounting	
	ACT 105	Personal Accounting and Finance	
Finance Option:	ECO 220	Money and Banking	9
	Elective from ACT,BUS,ECO, GEO 120, MAT 175 or BTC 170		
General Business Option: (Pick 3)	Any ACT, BUS, ECO, GEO 120, MAT 175 or BTC 170		9

**Total Required Hours: 61 credits**

\*ACT 101 or high school accounting is strongly recommended.

\*\* The Academic Skills Assessment is required before enrolling in math or English courses. If a student places into lower-level courses than are required for his/her degree, then the student needs to first enroll in such courses before enrolling in the required courses.

## Business Technology AAS

Subject	Course	Title	Credits	
<b>General Education Requirements (16 credits)</b>				
Mathematics	MAT 105	Applied Math	3	
Communication	ENG 101 or ENG 102	English Composition I English Composition II	3	
	COM 101	Introduction to Communications	3	
	HIS 101 or HIS 102 or HIS 103 or HIS 104 or POL 101	U.S. History to 1877 or U.S. History Since 1877 or African American History to 1877 African American History Since 1877 American Government	3	
Natural Science	BIO 105 or BIO 108 or PHY 111 or PHY 130 COL 101	Essentials in Biology Trends in Science Introduction to Physical Science Astronomy College Success Seminar	3 1	
	<b>Core Course Requirements (36 credits)</b>			
	CPT/BTC 103	Microcomputer Applications	3	
	BTC 105	Proofreading & Editing Business Documents	2	
BTC 130	Customer Service	1		
BTC 131	Telephone Communication Skills	1		
BTC 132	Time Management (online)	1		
BTC 135	Your Professional Image	1		
BTC 136	Electronic Communication with Stakeholders	3		
BTC 145	Business Technology Tools	3		
BTC 160	Word Processing - Word	2		
BTC 165	Presentations - PowerPoint	2		
BTC 170	Spreadsheet Applications - Excel	3		
BTC 175	Database Applications - Access	2		
BTC 190	Planning and Design Concepts - Publisher	3		
BTC 245	Administrative Procedures	3		
BTC 247	Administrative Supervision	3		
BTC 250	Business Simulations	3		
<b>Electives (9 credits)</b>				
	ACT 101 or BUS 101	Applied Accounting Intro to Business	3	
	CPT 125	Project Management	3	
	CPT 105 or BUS 105	Ethics in Technology Business Ethics	3	
	<b>Total Required Hours: 61 credits</b>			

## Computer-Aided Drafting (CAD) AAS

Subject	Course	Title	Credits
<b>General Education Requirements (16 credits)</b>			
Mathematics	MAT 105 or	Applied Mathematics or higher	3
	ENG 101 or	English Composition I*	3
	ENG 102 or	English Composition II*	
Communication	ENG 115	Technical Writing*	3
	COM 101 or	Introduction to Communication	
	COM 104 or	Small Group Communication	
	COM 106 or	Public Speaking	
Social Science	COM 110	Interpersonal Communication	3
	HIS 101 or	US History to 1877	
	HIS 102 or	US History Since 1877	
	HIS 103	African-American History to 1877	
	HIS 104	African-American History Since 1877	
	POL 101	American Government	
Natural Science	CHM 101 or	Introduction to Chemistry	3
	BIO 105 or	Essentials in Biology	
	BIO 108 or	Trends in Science	
	BIO 110 or	Human Biology	
	BIO 122 or	Environmental Sciences	
	PHY 105 or	Environmental Geology	
	PHY 111 or	Introduction to Physical Science	
Institutional Requirement	PHY 125 or	Introduction to Physical Geology	1
	PHY 130	Astronomy	
<b>Core Course Requirements (19 credits)</b>			
	COL 101	College Success Seminar	1
	CAD 102	Introduction to SolidWorks	3
	CAD 104	Introduction to AutoCAD	3
	CAD 106	Introduction to Autodesk Inventor	3
	CAD 107	Introduction to Revit	3
	CAD 299	CAD Capstone	1
	BTC/CPT 103 or	Microcomputer Applications	3
	BTC 170	Spreadsheet Applications - Excel	
	ACT 105 or	Personal Accounting and Finance	3
	ECO 100 or	Survey Economics	
	ECO 110 or	Principles of Macroeconomics	
	ECO 120	Principles of Microeconomics	3
<b>Electives (25 credits)</b>			
	BTC 130	Customer Service Excellence	1
	BTC 131	Telephone Communication Skills	1
	BTC 132	Time Management	1
	BTC 135	Your Professional Image	1
	BTC 137	Interpersonal Skills	1
	CAD 103	Introduction to Autodesk Civil 3D	3
	CAD 144	Introduction to AutoCAD Architecture	3
	CAD 164	Introduction to AutoCAD Electrical	3
	CAD 202	Advanced SolidWorks CSWA Exam Prep	3
	CAD 237	Structural Drafting with Revit	3
	CAD 244	Architectural Drafting with AutoCAD	3
	CAD 247	Architectural Drafting with Revit	3

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CAD 254	HVAC Drafting with AutoCAD	3
CAD 257	Mechanical, Electrical, and Plumbing Drafting with Revit	3
CAD 274	Geometric Dimensioning and Tolerancing with AutoCAD	3
CAD 290	CAD Externship	3
CPM 210	Digital Photo Editing	3
CPM 220	3D Animation	3
EGR-104	Engineering Design	3
GEO 120	Introduction to GIS	3
GEO 225	Advanced GIS	3
MFG 101	Principles of Safety	3
MFG 111	Principles of Quality Practices	3
MFG 130	Basic Blueprint Reading	3
MFG 201	Principles of Manufacturing Processes and Production	3

**Total Required Hours: 60 credits**

## Culinary AAS

Subject	Course	Title	Credits
<b>General Education Requirements (16 credits)</b>			
Mathematics	MAT 105	Applied Math or higher	3
Writing	ENG 101	English Composition I	3
	COM 110	Interpersonal Communication	3
Social Science	HIS 101 or HIS 102 or	U.S. History to 1877 or U.S. History Since 1877 or	
	HIS 103 or HIS 104 or	African American History to 1877 African American History Since 1877	3
	POL 101	American Government	
	BIO 105	Essentials of Biology	3
	College 101 Requirement	COL 101	College Success Seminar
<b>Core Course Requirements (42 credits)</b>			
	CUL 100A	Culinary Fund. for Career Path Lec.	1
	CUL 100B	Culinary Fund. for Career Path Lab	4
	CUL 101	Sanitation and Safety for Food Service	1
	CUL 106	Egg Cookery & Cold Foods	3
	CUL 107	Sustainable Food Systems for Culinarians	3
	CUL 130	Hospitality Business and Service	3
	CUL 131	Menu Design & Management	3
	CUL 132	Bar and Beverage Management	3
	CUL 140	Principles of Nutrition	3
	CUL 150	World Cuisine	3
	CUL 190	Advanced Culinary Techniques	3
	CUL 292	Topics in Culinary	3
	CUL 290A	Capstone	1
	CUL 290B	Internship	5
	BUS 105	Business Ethics	3
<b>Elective/Option Course Requirements (3 credits)</b>			
		Any additional course for a combination of	3
<b>Total Required Hours: 61 credits</b>			

## Cyber Security AAS

Subject	Course	Title	Credits		
<b>General Education Requirements (16-17 credits)</b>					
Mathematics	MAT 105	Applied Mathematics or higher	3-4		
	ENG 101 or ENG 102 or ENG 115	English Composition I English Composition II Technical Writing	3		
	Communication	COM 101 or COM 104 or COM 106 or COM 110	Introduction to Communications Small Group Communication Public Speaking Interpersonal Communication	3	
Social Science		HIS 101 or HIS 102 or HIS 103 or HIS 104 or POL 101	U.S. History to 1877 or U.S. History Since 1877 or African American History to 1877 African American History Since 1877 American Government	3	
		Natural Science	CHM 101 or BIO 105 or BIO 108 or BIO 110 or PHE 240 or PHY 105 or PHY 111 or PHY 125 or PHY 130	Introduction to Chemistry Essentials in Biology Trends in Science Human Biology Nutrition for Weight Management Environmental Geology Introduction to Physical Science Introduction to Physical Geology Astronomy	3
			COL 101	College Success Seminar	1
	<b>Core Course Requirements (48 credits)</b>				
BTC/CPT 103	Microcomputer Applications		3		
IT 110	Microsoft Technologies I		3		
IT 210	Microsoft Technologies II		3		
IT 130	Introduction to Linux	3			
IT 230	Linux Administration	3			
IT 151	CCNA1 (Introduction to Networks)	4			
IT 152	CCNA2 (Switching, Routing, Wireless Essentials)	4			
IT 140	Programming for System Administrators	3			
IT 172	Digital Forensics	3			
IT 171	Ethical Hacking	3			
IT 173	Topics in Cyber Security I	3			
IT 270	Network Security	4			
IT 271	Penetration Testing	3			
IT 273	Topics in Cyber Security II	3			
IT 275	CCISP	3			
<b>Total Required Hours: 64-65 credits</b>					

## Data Analytics AAS

Subject	Course	Title	Credits
<b>General Education Requirements (16 credits)</b>			
Mathematics	MAT 105 (or higher)	Math Elective	3
Communication	ENG 101, 102, 115	Writing Elective	3
	COM 101, 104, 106, 110	Communication Elective	3
Natural Science	CHM 101 or	Introduction to Chemistry	3
	BIO 105 or	Essentials in Biology	
	GEO 103 or	Physical Geography	
	BIO 108 or	Trends in Science	
	BIO 110 or	Human Biology	
	PHY 105 or	Environmental Geology	
	PHY 111 or	Introduction to Physical Science	
	PHY 125 or	Introduction to Physical Geology	
Social Science	PHY 130	Astronomy	3
	HIS 101 or	US History to 1877	
	HIS 102 or	US History Since 1877	
	HIS 103 or	African American History to 1877	
	HIS 104	African American History since 1877	
Institutional Elective	POL 101	American Government	1
	POL 102	State & Local Government	
	COL 101	College Success Seminar	1
<b>Computer Science Core Requirements (14 credits)</b>			
	CPT 103	Microcomputer Applications	3
	CPT 105	Ethics in Technology	3
	CPT 135	Computer Science 1 with Python	4
	CPT 200	System Analysis and Design-Capstone Project	3
	CPT 207	Career Development for Technology Professionals	1
<b>Data Analytics Core Course Requirements (22 credits)</b>			
	BTC 170	Spreadsheet Applications - Excel	3
	CPT 140	Data Visualization w/Tableau	3
	CPT 181	SQL Programming	3
	CPT 201	Database Design & Administration	3
	CPT 210	Analytical Tools and Methods	3
	CPT 235	Understanding Data w/Apache Spark	3
	MAT 157	College Statistics - General Education	4
<b>Data Analytics Elective Courses (9 credits)</b>			
	BTC 145	Business Technology Tools	3
	BTC 175	Database Applications - Access	2
	CPT 106	Operating Systems	3
	CPT 121	Basics of Data Communications	3
	CPT 187	Visual Basic.NET Programming	3
	CPT 198	Computer Science Internship	1-3
	CPT 250	Database Website Program w/PHP & MySQL	3
	CPT 260	Oracle Programming	3
	HIM 230	Healthcare Data Analysis	3
	IT 171	Ethical Hacking	3
	IT 172	Digital Forensics	3
	LGM 215	Introduction to Data Analytics	3
<b>Total Required Credit Hours: 61 credit hours</b>			

## Database Management AAS

Subject	Course	Title	Credits
<b>General Education Requirements (16 credits)</b>			
Mathematics	MAT 105 (or higher)	Math Elective	3
Communication	ENG 101, 102, 115	Writing Elective	3
	COM 101, 104, 106, 110	Communication Elective	3
Natural Science	CHM 101 or	Introduction to Chemistry	3
	BIO 105 or	Essentials in Biology	
	GEO 103 or	Physical Geography	
	BIO 108 or	Trends in Science	
	BIO 110 or	Human Biology	
	PHY 105 or	Environmental Geology	
	PHY 111 or	Introduction to Physical Science	
	PHY 125 or	Introduction to Physical Geology	
Social Science	PHY 130	Astronomy	3
	HIS 101 or	US History to 1877	
	HIS 102 or	US History Since 1877	
	HIS 103 or	African American History to 1877	
	HIS 104	African American History since 1877	
Institutional Elective	POL 101	American Government	1
	POL 102	State & Local Government	
	COL 101	College Success Seminar	1
<b>Computer Science Core Requirements (14 credits)</b>			
	CPT 103	Microcomputer Applications	3
	CPT 105	Ethics in Technology	3
	CPT 135	Computer Science 1 with Python	4
	CPT 200	System Analysis and Design-Capstone Project	3
	CPT 207	Career Development for Technology Professionals	1
<b>Database Management Course Requirements (18 credits)</b>			
	CPT 121	Basics of Data Communications	3
	CPT 181	SQL Programming	3
	CPT 201	Database Design & Management	3
	CPT 250	Database website program w/PHP & MySQL	3
	CPT 260	Oracle Programming	3
	IT 170	Security Fundamentals	3
<b>Database Management Elective Courses (12 credits)</b>			
	BTC 145	Business Technology Tools	3
	BTC 170	Spreadsheet Applications - Excel	3
	BTC 175	Database Applications - Access	2
	CPM 190	Backend Web Development (JavaScript/XML/PHP/MySQL)	3
	CPT 106	Operating Systems	3
	CPT 125	Introduction to Project Management	3
	CPT 140	Data Visualization w/Tableau	3
	CPT 198	Computer Science Internship	1-3
	CPT 210	Analytical Tools and Methods	3
	CPT 225	Advanced Topics in Project Management	3
	CPT 235	Understanding Data w/Apache Spark	3
	HIM 230	Healthcare Data Analysis	3
	IT 140	Programming for System Administrators	3
	IT 171	Ethical Hacking	3
	IT 172	Digital Forensics	3
	LGM 215	Introduction to Data Analytics	3
<b>Total Required Credit Hours: 60 credit hours</b>			



## Emergency Medical Science AAS

Subject	Course	Title	Credits
<b>General Education Requirements (17 credits)</b>			
Mathematics	MAT 105	Applied Mathematics	3
Writing	ENG 101	English Composition I	3
Communication	COM 101 or	Introduction to Communication	
	COM 110	Interpersonal Communication	3
Social Science	HIS 101 or	US History to 1877	
	HIS 102 or	US History Since 1877	
	HIS 103 or	African-American History to 1877	3
	HIS 104 or	African-American History since 1877	
	POL 101	American Government	
Natural Science	BIO 110/BIO 113	Human Biology & Human Biology Lab	4
Elective	COL 101	College Success Seminar	1
<b>Core Course Requirements* (39 credits)</b>			
<p style="text-align: center;">This requirement is fulfilled by submitting proof of passing the National Registry of Emergency Medical Technicians (NREMT) Exam. These credit hours will be granted at the completion of all the other A.A.S. degree requirements.</p>			
	PSY 210	Human Growth and Development	3
	HIM 110	Medical Terminology	3
	PSY 101	Introduction to Psychology	3
<b>Total Required Hours: 56 credits</b>			

## Exercise Science AAS

Subject	Course	Title	Credits
<b>General Education Requirements 16-17</b>			
Mathematics	MAT 121 or MAT 157	Intermediate Algebra, or College Statistics	3-4
Communication	ENG 101 or ENG 102 or ENG 115	English Composition I or English Composition II or Technical Writing	3
	COM 101 or COM-110	Introduction to Communications Interpersonal Communications	3
	HIS 101 or HIS 102 or HIS 103 or HIS 104 or POL-101	U.S. History to 1877 or U.S. History Since 1877 or African American History to 1877 African American History Since 1877 American Government	3
Natural Science	CHM 101 COL-101	Introduction to Chemistry College Success Seminar	3 1
<b>Core Course Requirements (45-46)</b>			
	EXS 100	Introduction to Exercise Science	3
	EXS 110	Introduction to Exercise Physiology	3
	EXS 200	Muscular Fitness Assessment/Program Design	2
	EXS 205	Flexibility and Balance Assessment/Program Design	2
	EXS 210	Cardiorespiratory Fitness Assessment/Program Design	2
	EXS 215	Weight Management and Motivation Assessment/Program Design	2
	EXS 220	Resistance Training and Recovery Techniques	3
	EXS 225	Cardiorespiratory Flexibility Training	3
	PHE 112	Weight Training I	1
	PHE 210 or PHE 211	First Aid and Safety CPR/AED	1-2
	PHE 215 or PHE 230	Personal Wellness or Healthful Living	3
	PHE 243	Nutrition for Special Populations	2
	PHE 220	Stress Management	3
	PHE 241 or PHE 242	Principles of Human Nutrition or Introduction to Nutrition	3
	PHE 275	Sport and Exercise Science Psychology	3
	CHM 103	Intro to Chemistry Lab	1
	BIO 250A/B BIO 251A/B	Human Anatomy & Physiology I Human Anatomy & Physiology II	4 4
<b>Total Credit Hours 61-63</b>			

## General Technology AAS

Subject	Course	Title	Credits
<b>General Education Requirements* (16 credits)</b>			
Mathematics	MAT 105 or higher	Applied Mathematics	3
	ENG 101 or	English Composition I	3
	ENG 102 or	English Composition II	
	ENG 115 or	Technical Writing	
Communication	COM 101 or	Introduction to Communication	
	COM 104 or	Small Group Communication	3
	COM 106 or	Public Speaking	
	COM 110	Interpersonal Communication	
Social Science	HIS 101 or	U.S. History to 1877 or	
	HIS 102 or	U.S. History Since 1877 or	
	HIS 103 or	African American History to 1877	
	HIS 104 or	African American History Since 1877	
	POL 101	American Government	
	CHM 101 or	Intro to Chemistry	3
Natural Science	BIO 105 or	Essentials of Biology	
	BIO 108 or	Trends in Science	
	BIO 110 or	Human Biology	
	PHY 105 or	Environmental Geology	
	PHY 111 or	Intro to Physical Science	
	PHY 125 or	Intro to Physical Geology	
PHY 130	Astronomy	1	
COL 101	College Success Seminar		
<b>Core Course Requirements* (15 credits)</b>			
	ETC 101	Fundamentals of Electronics	3
	CAD 104	Introduction to AutoCAD	3
	MFG 101	Principles of Safety Practices	3
	BUS 204	Total Quality Operations Management	3
	LGM 215	Introduction to Data Analysis	3

### Program Major Concentration (18 credits)

18 credit hours or a Certificate of Specialization from applicable program areas, including: Computer Science, IT, Web Design & Development, Graphic Design, Business Technology, Manufacturing Technologies, GIS or Welding.

### Elective Course Requirements (12 credits)

12 credit hours of course work from applicable program areas, including: Computer Science, IT, Web Design & Development, Graphic Design, Business Technology, Manufacturing Technologies, GIS or Welding.

**Total Required Hours: 61 credits**

\* If planning to utilize as transfer credits to another institution, contact advising or the General

## GIS Technician AAS

Subject	Course	Title	Credits	
<b>General Education Requirements (16 credits)</b>				
Mathematics	MAT 105 (or higher)	Math elective	3	
Communication	ENG 101, 102, 115	Writing Elective	3	
	COM 101, 104, 106, 110	Communication Elective	3	
Natural Science	CHM 101 or BIO 105 or GEO 103 or BIO 108 or BIO 110 or PHY 105 or PHY 111 or PHY 125 or PHY 130	Introduction to Chemistry Essentials in Biology Physical Geography Trends in Science Human Biology Environmental Geology Introduction to Physical Science Introduction to Physical Geology Astronomy	3	
	HIS 101 or HIS 102 or HIS 103 or HIS 104	US History to 1877 US History Since 1877 African American History to 1877 African American History since 1877	3	
	POL 101 POL 102	American Government State & Local Government		
	Institutional Elective COL 101	College Success Seminar	1	
	<b>Computer Science Core Requirements (14 credits)</b>			
		CPT 103	Microcomputer Applications	3
		CPT 105	Ethics in Technology	3
	CPT 135	Computer Science 1 with Python	4	
	CPT 200	System Analysis and Design-Capstone Project	3	
	CPT 207	Career Development for Technology Professionals	1	
<b>GIS Technician Core Course Requirements (22 credits)</b>				
	BTC 170	Spreadsheet Applications - Excel	3	
	CPT 140	Data Visualization w/ Tableau	3	
	CPT 181	SQL Programming	3	
	GEO 100	Principles of Geography	3	
	GEO 120	Introduction to GIS (Geographic Information Systems)	3	
	GEO 225	Advanced GIS	3	
	MAT 157	College Statistics - General Education	4	
<b>GIS Technician Elective Courses (9 credits)</b>				
	AGR 120	Precision Agriculture	3	
	CAD 103	Introduction to Autodesk Civil 3D	3	
	CAD 104	Introduction to AutoCAD	3	
	CAD 107	Introduction to Revit	3	
	CPT 106	Operating Systems	3	
	CPT 121	Basics of Data Communications	3	
	CPT 198	Computer Science Internship	1-3	
	CPT 201	Database Design & Administration	3	
	CPT 250	Database Website Program w/PHP & My	3	
	GEO 220	GIS Internship I	1-3	
	GEO 221	GIS Internship II	1-3	
	GEO 222	GIS Internship III	1-3	
<b>Total Required Credit Hours: 61 credit hours</b>				

## Graphic Design AAS

Subject	Course	Title	Credits	
<b>General Education Requirements (16 credits)</b>				
Mathematics	MAT 105	Applied Math or above	3	
	ENG 101	English Composition I		
Communication	ENG 102 or ENG 115 or	English Composition II	3	
	COM 101	Introduction to Communication		
	COM 104	Small Group Communications		
	COM 106	Public Speaking	3	
	COM 110	Interpersonal Communications		
	Social Science	HIS 101 or HIS 102 or HIS 103 or HIS 104 or	U.S. History to 1877 or U.S. History Since 1877 or African American History to 1877 African American History Since 1877	3
POL 101		American Government		
CHM 101		Introduction to Chemistry		
Natural Science		BIO 105	Essential of Biology	
		BIO 108	Trends in Science	
		BIO 110	Human Biology	
	BIO 122	Environmental Science	3	
	PHE 240	Nutrition for Weight Management		
	PHY 105	Environmental Geology		
College 101 Requirement	PHY 130	Astronomy		
	OTA 115*	Kinesiology/Functional A&P		
	OTA 116*	Applied A&P in Health and Disease		
College 101 Requirement	COL 101	College Success Seminar	1	
<b>Art Core Course Requirements (24 credits)</b>				
	ART 1105	Digital Art Studio	3	
	ART 1200	2-D Design	3	
	ART 1205	Color Theory	3	
	ART 1300	3-D Design	3	
	ART 1400	Drawing I	3	
	ART 1405	Drawing II	3	
	ART 1500	Survey of Western Art History I	3	
	ART 1505	Survey of Western Art History II	3	
<b>Graphic Design Core Course Requirements (15 credits)</b>				
	ART 2110	Visualization & Layout	3	
	ART 2120	Typography	3	
	ART 2130	Digital Imaging & Illustration	3	
	ART 2810	Digital Photo I	3	
	ART 2199	Portfolio Design & Professional Practices (capstone)	3	
<b>Elective Course Requirements (6 credits) Choose 2</b>				
	ART 2100	History of Graphic Design	3	
	ART 2140	Web Design	3	
	ART 2160	Animation & Motion Graphics	3	
	ART 2170	Video Production	3	
	ART 2310	Figure Drawing	3	

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ART 2700	Printmaking	3
ART 2860	Studio Lighting	3
ART 2870	Event Photography	3
ART 2830	Digital Photo II	3
ART 2900	Illustration & Sequential Art	3

Or any Visual ART/CPM course may be substituted with  
Chair permission

**Total Required Hours: 61 credits**

## Information Technology AAS

Subject	Course	Title	Credits		
<b>General Education Requirements (16-17 credits)</b>					
Mathematics	MAT 105	Applied Mathematics or higher	3-4		
	ENG 101 or ENG 102 or ENG 115	English Composition I English Composition II Technical Writing	3		
	Communication	COM 101 or COM 104 or COM 106 or COM 110	Introduction to Communication Small Group Communication Public Speaking Interpersonal Communication	3	
Social Science		HIS 101 or HIS 102 or HIS 103 or HIS 104 or POL 101	U.S. History to 1877 or U.S. History Since 1877 or African American History to 1877 African American History Since 1877 American Government	3	
		Natural Science	CHM 101 or BIO 105 or BIO 108 or BIO 110 or PHE 240 or PHY 105 or PHY 111 or PHY 125 or PHY 130 COL 101	Introduction to Chemistry Essentials in Biology Trends in Science Human Biology Nutrition for Weight Management Environmental Geology Introduction to Physical Science Introduction to Physical Geology Astronomy College Success Seminar	3          1
			<b>Core Course Requirements (46 credits)</b>		
			BTC/CPT 103	Microcomputer Applications	3
	IT 100		IT Technical Support	3	
	IT 110		Microsoft Technologies I	3	
	IT 140		Programming for System Administrators	3	
	IT 151	CCNA1 (Introduction to Networks)	4		
	IT 152	CCNA2 (Switching, Routing, Wireless Essentials)	4		
	IT 153	CCNA3 (Enterprise Networking, Security, Automation)	4		
	IT 155	Programming for Network Administrators (DevNet)	4		
	IT 130	Introduction to Linux	3		
	IT 210	Microsoft Technologies II	3		
	IT 230	Linux Administration	3		
	IT 160	Virtualization Technologies	3		
	IT 299	Topics in Information Technology	3		
	IT 170	Security Fundamentals	3		

**Total Required Hours: 62-63 credits**

## Interdisciplinary Technology AAS

Subject	Course	Title	Credits
<b>General Education Requirements* (16 credits)</b>			
Mathematics	MAT 105 or higher	Applied Mathematics	3
Communication	ENG 101 or ENG 102 or ENG 115	English Composition I English Composition II Technical Writing	3
	COM 101	Introduction to Communication	3
	HIS 101 or HIS 102 or HIS 103 or HIS 104 or	U.S. History to 1877 or U.S. History Since 1877 or African American History to 1877 African American History Since 1877	3
Social Science	POL 101 or POL 102	American Government State and Local Government	
	PHY 111 COL 101	Intro to Physical Science College Success Seminar	3 1

### Program Major Concentration (45-54 credits)

Students choose 2 to 3 certificates based on interest and future career goals.

Certificate	Credits
Facilities Maintenance	18
Electrical Electronics	18
Robotics Automation	18
CyberSecurity*	29
Data Analytics	16
HVAC-R	16
Hydraulics Pneumatics	15
CAD - General	16
Mechanical Design and Drafting	16
Advanced Welding	15
Basic Welding	15

\* Due to the credit level of the Cyber Security CS, students can not take this in conjunction with basic welding or Hydraulics Pneumatics as it wouldn't provide enough credit hours for graduation

**Total Required Hours: 61-71 credits**



## Law Enforcement AAS

Subject	Course	Title	Credits
<b>General Education Requirements (19 credits)</b>			
Mathematics	MAT 105	Applied Math or higher	3
	ENG 101	English Composition I	3
Communication	COM 101 or COM 104 or COM 106 or COM 110	Introduction to Communication Small Group Communication Public Communication Interpersonal Communication	3
	HIS 101 or HIS 102 or HIS 103 or HIS 104 or	U.S. History to 1877 or U.S. History Since 1877 or African American History to 1877 African American History Since 1877	3
	POL 101 CHM 101 or BIO 105 or BIO 108 or BIO 110 or	American Government Introduction to Chemistry Essentials of Biology Trends in Science Human Biology	
	Natural Science	Environmental Sciences	3
Natural Science	BIO 122 or PHE 240 or PHY 105 or PHY 111 or PHY 125 or PHY 130	Nutrition for Weight Management Geology Introduction to Physical Science Introduction to Physical Geology Astronomy	
	Elective	Microcomputer Applications	3
		College Success Seminar	1
	<b>Core Course Requirements (26-27 credits)</b>		
	CRJ 140	Introduction to Criminal Justice	3
	CRJ 170	Criminal Law & Procedures	3
	CRJ 171	Rules of Evidence	3
	CRJ 175	Criminology	3
	CRJ 201	Criminal Justice: Politics & Policy	3
	CRJ 206	Introduction to Juvenile Justice Service Systems	3
	SOC 101	Introduction to Sociology	3
	CRJ 265	Internship I	1-3
	CRJ 298	Criminal Justice Capstone	1
	ENG 102** or ENG 115**	English Composition II Technical Writing	3
<b>Law Enforcement Option - Choose 5 Course From Below (15 credits)</b>			
	CRJ 103	Addictive Disease Concepts	3
	CRJ 104	Treatment Alcohol & Drugs	3
	CRJ 110	Criminal Investigations	3
	CRJ 202	Correctional Institutions	3
	CRJ 211	Introduction to Victimology	3
	CRJ 224	Constitutional Law	3
	CRJ 230	Crisis Intervention	3
	CRJ 240	Probation and Parole	3
	CRJ 260	Police and Community Relations	3
	IT 172	Digital Forensics	3
	IT 170	Security Fundamentals	3
<b>Total Required Hours: 60-62 credits</b>			

\*The Academic Skills Assessment is required before enrolling in a math or English course. If a student places into lower-level courses that are required for the degree, then the student must first enroll in lower-level courses before enrolling in the courses required for graduation.

\*\* ENG 102 and ENG 115 have ENG 101 as a prerequisite.

## Management Information Systems AAS

Subject	Course	Title	Credits	
<b>General Education Requirements (16 credits)</b>				
Mathematics	MAT 105 (or higher)	Math Elective	3	
Communication	ENG 101, 102, 115	Writing Elective	3	
	COM 101, 104, 106, 110	Communication Elective	3	
Natural Science	CHM 101 or BIO 105 or GEO 103 or BIO 108 or BIO 110 or PHY 105 or PHY 111 or PHY 125 or PHY 130	Introduction to Chemistry Essentials in Biology Physical Geography Trends in Science Human Biology Environmental Geology Introduction to Physical Science Introduction to Physical Geology Astronomy	3	
	Social Science	HIS 101 or HIS 102 or HIS 103 or HIS 104	US History to 1877 US History Since 1877 African American History to 1877 African American History since 1877	3
		POL 101 POL 102	American Government State & Local Government	
		Institutional Elective	COL 101	College Success Seminar
	<b>Computer Science Core Requirements (14 credits)</b>			
		CPT 103	Microcomputer Applications	3
		CPT 105	Ethics in Technology	3
	CPT 135	Computer Science 1 with Python	4	
	CPT 200	System Analysis and Design-Capstone Project	3	
	CPT 207	Career Development for Technology Professionals	1	
<b>Management Information Systems Core Course Requirements (25 credits)</b>				
	ACT 110	Financial Accounting I	4	
	BUS 101	Introduction to Business	3	
	BUS 201	Principles of Management	3	
	CPT 125	Introduction to Project Management	3	
	CPT 181	SQL Programming	3	
	CPT 201	Database Design & Administration	3	
	CPT 225	Advanced Topics in Project Management	3	
	IT 170	Security Fundamentals	3	
<b>Management Information Systems Elective Courses (6 credits)</b>				
	ACT 130	Managerial Accounting	3	
	BTC 145	Business Technology Tools	3	
	BTC 170	Spreadsheet Applications - Excel	3	
	BTC 175	Database Applications - Access	2	
	CPT 106	Operating Systems	3	
	CPT 121	Basics of Data Communications	3	
	CPT 140	Data Visualization w/Tableau	3	
	CPT 198	Computer Science Internship	1-3	
	CPT 210	Analytical Tools and Methods	3	
	CPT 235	Understanding Data w/Apache Spark	3	
	CPT 250	Database Website Program w/PHP & MySQL	3	
	CPT 260	Oracle Programming	3	
	HIM 230	Healthcare Data Analysis	3	
	IT 140	Programming for System Administrators	3	
	LGM 105	Introduction to Supply Chain Operational Management	3	
	CPT 281	Introduction to Data Structures with C++	3	
	CPT 287	Introduction to Data Structures with Java	3	
<b>Total Required Credit Hours: 61 credit hours</b>				

## Manufacturing Technologies AAS

Subject	Course	Title	Credits	
<b>General Education Requirements (16-17 credits)</b>				
Mathematics	MAT 105	Applied Math or higher	3-4	
Communication	ENG 101 or ENG 102 or ENG 115 or COM 101, 104, 106, 110	English Composition I English Composition II Technical Writing Communication Elective	3 3	
	HIS 101 or HIS 102 or HIS 103 or HIS 104 or POL 101 or POL-102 CHM-101 BIO-105 BIO-108 BIO-110 BIO-122	U.S. History to 1877 or U.S. History Since 1877 or African American History to 1877 African American History Since 1877 American Government State and Local Government Introduction to Chemistry Essentials of Biology Trends in Science Human Biology Environmental Sciences	3	
	Natural Science	PHE-240 PHY-105 PHY-111 PHY-125 PHY-130 COL 101	Nutrition for Weight Management Environmental Geology Introduction to Physical Science Introduction to Physical Geology Astronomy College Success Seminar	3 1
	<b>Core Course Requirements (35 credits)</b>			
	LGM-100 MFG-101 MFG-111  MFG-130 MFG-132 MFG-141 MFG-201 MFG-215 LGM-101 LGM-105 GEO-120 MFG-220 MFG-290	Survey of Industrial Careers Principles of Safety  Principles of Quality Practices Basic Blueprint Reading Precision Tools & Measurement Principles of Green Production Principles of Mfg. Processes and Prod. Problem Solving Tactics in Mfg. Logistics and Supply Chain I Intro to Supply Chain Operational Mgmt. Introduction to GIS Principles of Maintenance Awareness Internship Capstone	1 3 3 3 3 3 3 3 3 3 3 3 1	
<b>Electives (9 credits)</b>				
Pick three:	CAD-104 CAD-103 CAD-106 CAD-274 CPT-140 MFG-205 MFG 225 LGM-210	Introduction to AutoCAD Introduction to Autodesk Civil 3D Introduction to Autodesk Inventor Geometric Dimensioning and Tolerance Data Visualization Manufacturing Process Controls Supervisory Skills Logistics and Supply Chain II	3 3 3 3 3 3 3 3	

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LGM-215	Introduction to Data Analytics	3
ETC-101	Fundamentals of Electronics	3
ACT-101	Applied Accounting	3
BUS-206	Human Resources Management	3
BUS-204	Total Quality Operations Management	3
BUS-208	Entrepreneurship/Small Bus Mgmt	3
BUS-210	Organizational Behavior	3
<b>Total Required Hours: 60-61 credits</b>		

## Mechatronics Engineering Technology AAS

Subject	Course	Title	Credits
<b>General Education Requirements (16 credits)</b>			
Mathematics	MAT-105	Applied Math	3
Communications	ENG-101 or ENG-102 or ENG-115	English Comp I English Comp II Technical Writing	3
	COM 101	Introduction to Communications	3
	HIS 101, 102, 103, 104, POL 101, POL 102	US History to 1877, US History Since 1877, African American History to 1877, African American History Since 1877, American Government or State & Local Government	3
Natural Science	PHY-111	Intro to Physical Science	3
Elective	COL 101	College Seminar	1
<b>Core Course Requirements (45 credits)</b>			
	MFG-132	Precision Tools & Measurement	3
	MFG-101	Principles of Safety	3
	CAD-103	Autodesk Civil 3D	3
	MEC-115	Machine Design	3
	ETC-101	Fundamentals of Electronics	3
	MEC-112	Hydraulic & Pneumatic	3
	MFG-201	Principles of Manufacturing Processes and Production	3
	MEC-108	Intro to Prog Logic Controller	3
	MEC-210	Robotics Theory, Maintenance & Application	3
	MFG-240	Basic Computer Integrated Manufacturing	3
	ETC-210	Industrial Electricity	3
	MFG-215	Problem Solving Tactics in Manufacturing	3
	MEC-220	Auto System Integration	3
	MEC-110	Motors & Controls	3
	MFG-111	Principles of Quality Practices	3
<b>Total Required Hours: 61 credits</b>			

## Multimedia & Web Development AAS

Subject	Course	Title	Credits
<b>General Education Requirements (16 credits)</b>			
Mathematics	MAT 105 or higher	Applied Math or higher	3
	ENG 101 or	English Composition I	3
	ENG 102 or	English Composition II	
	ENG 115	Technical Writing	
Communication	COM 101 or	Introduction to Communication (preferred)	
	COM 104 or	Small Group Communication	
	COM 106 or	Public Speaking	
	COM 110 or	Interpersonal Communication	
Social Science	HIS 101 or	U.S. History to 1877 or	3
	HIS 102 or	U.S. History Since 1877 or	
	HIS 103 or	African American History to 1877	
	HIS 104 or	African American History Since 1877	
	POL 101	American Government	
	BIO 105	Essentials of Biology	
Natural Science	BIO 108	Trends in Science	3
	BIO 110	Human Biology	
	CHM 101	Introduction Chemistry	
	PHE 240	Nutrition for Weight Management	
	PHY 105	Environmental Geology	
	PHY 111	Introduction Physical Science	
	PHY 125	Introduction to Physical Geology	
College 101 Requirement	PHY 130	Astronomy	1
	COL 101	College Success Seminar	
	<b>Core Course Requirements (18 credits)</b>		
	CPT/BTC 103	Microcomputer Applications	3
	CPT/BUS 105	Ethics in Technology	3
	CPM 120	Introduction to Multimedia (Adobe Creative Cloud)	3
	CPM 160	Frontend Web Development (HTML/CSS/JavaScript)	3
	CPM 210	Digital Photo Editing (Adobe Photoshop)	3
	CPM 295	Web Project/Portfolio Capstone	3
<b>Media Development Pathway Core (18 Credits)</b>			
	CPM 170	Computer Graphics (Adobe AI)	3
	CPM 220	3-D Modeling and Animation (Sketchup)	3
	CPM 230/BUS 272	Social Media Marketing for the Web	3
	CPM 240	Web Development	3
	CPM 250	Motion Graphics (Adobe Ae)	3
	CPM 270	Digital Video Editing (Premiere/AfterEffects)	3
<b>Media Development Pathway Electives- Choose 3 (9 Credits)</b>			
	CPM 175	Digital Media Publication (Adobe InDesign)	3
	CPM 189	Digital Audio Editing (Adobe Audition)	3
	CPM 290	Topics in Multimedia & Web Development	3
	ART 2110	Visualization & Layout	3
	ART 2120	Typography	3
	xxx xxx	Any course from Web development pathway	3

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**Web Development Pathway Core (17 Credits)**

CPM 190	Backend Web Development	3
CPM 260	Word Press	3
CPT 188	JavaScript	3
CPT 135	Programming in Python	4
CPT 207	Career Development for Technology Professionals	1
CPT-250	Database Programming	3

**Web Development Pathway Electives- Choose 3 (9 Credits)**

CPM 290	Topics in Multimedia & Web Development	3
CPT 160	Mobile Apps Development	3
CPT 189	Java Programming	3
xxx xxx	Any course from Media development pathway	3

**Total Required Hours: 60-61 credits**



## Networking AAS

Subject	Course	Title	Credits		
<b>General Education Requirements (16-17 credits)</b>					
Mathematics	MAT 105	Applied Mathematics or higher	3-4		
	ENG 101 or ENG 102 or ENG 115	English Composition I English Composition II Technical Writing	3		
	Communication	COM 101 or COM 104 or COM 106 or COM 110	Introduction to Communication Small Group Communication Public Speaking Interpersonal Communication	3	
Social Science		HIS 101 or HIS 102 or HIS 103 or HIS 104 or POL 101 CHM 101 or BIO 105 or BIO 108 or BIO 110 or	U.S. History to 1877 or U.S. History Since 1877 or African American History to 1877 African American History Since 1877 American Government Introduction to Chemistry Essentials in Biology Trends in Science Human Biology	3	
		Natural Science	PHE 240 or PHY 105 or PHY 111 or PHY 125 or PHY 130 COL 101	Nutrition for Weight Management Environmental Geology Introduction to Physical Science Introduction to Physical Geology Astronomy College Success Seminar	3     1
			<b>Core Course Requirements (48 credits)</b>		
			BTC/CPT 103	Microcomputer Applications	3
	IT 110		Microsoft Technologies I	3	
	IT 210	Microsoft Technologies II	3		
	IT 130	Introduction to Linux	3		
	IT 230	Linux Administration	3		
	IT 140	Programming for System Administrators	3		
	IT 151	CCNA1 (Introduction to Networks)	4		
	IT 152	CCNA2 (Switching, Routing, Wireless Essentials)	4		
	IT 153	CCNA3 (Enterprise Networking, Security, Automation)	4		
	IT 155	Programming for Network Administrators (DevNet)	4		
	IT 160	Virtualization Technologies	3		
	IT 251	CCNP Enterprise Routing and Services	4		
	IT 252	CCNP Advanced Enterprise Routing and Services	4		
	IT 299	Topics in Information Technology	3		

**Total Required Hours: 64-65 credits**

## Occupational Therapy Assistant AAS

Subject	Course	Title	Credits
<b>General Education Requirements (19 credits)</b>			
Math	MAT 105 or higher	Applied Math or higher	3
	ENG 101	English Composition I	3
Communication	COM 101 or	Introduction to Communication	3
	COM 104 or	Small Group Communication	
	COM 110	Interpersonal Communication	3
	PSY 101	Intro to Psychology	
Social Science	PSY 210	Human Growth & Development	3
	HIS 101 or	U.S. History to 1877 or	3
	HIS 102 or	U.S. History Since 1877 or	
	HIS 103 or	African American History to 1877	
	HIS 104 or	African American History Since 1877	1
	POL 101	American Government	
	COL 101	College Success Seminar	
<b>Core Course Requirements (47 credits)</b>			
	OTA 105	Fundamentals of OTA I	12
	OTA 115	Kinesiology/Functional A & P	0
	OTA 125	Occupation Based Activities I	0
	OTA 106	Fundamentals of OTA II	12
	OTA 116	Applied A & P for Health & Disease	0
	OTA 126	Occupation Based Activities II	0
	OTA 205	Fundamentals of OTA III	13
	OTA 215	Prof Development/Clinical Competency	0
	OTA 225	Occupation Based Activities III	0
	OTA 226	OTA Practicum I	4
	OTA 227	OTA Practicum II	4
	OTA 206	OTA Capstone	2
<b>Total Required Hours: 66 credits</b>			

## Paraprofessional Studies AAS

Subject	Course	Title	Credits
<b>General Education Requirements (15-16 credits)</b>			
Mathematics	MAT 108 or	Understanding K-8 Mathematics	3-4
	MAT 121 or higher	Intermediate Algebra	
	ENG 101	English Composition I	3
Communication	COM 101 or	Introduction to Communication*	3
	COM 104 or	Small Group Communication	
	COM 106 or	Public Speaking	
Social Science	COM 110	Interpersonal Communication	3
	POL 101	American Government	
	CHM 101 or	Introduction to Chemistry*	
	BIO 105 or	Essentials in Biology*	
Natural Science	BIO 108 or	Trends in Science	3
	BIO 110 or	Human Biology	
	BIO 122 or	Environmental Sciences	
	PHY 105 or	Environmental Geology	
	PHY 111 or	Introduction to Physical Science*	
	PHY 125 or	Introduction to Physical Geology	
	PHY 130	Astronomy	
<b>Core Course Requirements (39 credits)</b>			
	HIS 101 or	U.S. History to 1877	3
	HIS 102 or	U.S. History Since 1877	
	HIS 115 or	U.S. History Since 1945	
	HIS 145 or	Western Civilization: Ancient & Medieval Heritage	3
	HIS 146	Western Civilization: Modern European Heritage	
	PSY 101	Introduction to Psychology	3
	PSY 201 or	Child Psychology	3
	PSY 215	Adolescent Psychology	
	EDU 101	Introduction to Teacher Education	1
	EDU 125 or	Teaching Literacy through Storytelling	3
	EDU 225	Literature for Children	
	EDU 212	Foundations of Education in a Diverse Society	3
	EDU 222	Educational Technology	3
	EDU 240	Educational Psychology	3
	EDU 247	Multicultural Education	3
	EDU 250	Education of Exceptional Learners	3
	EDU 252	Autism Spectrum Disorders	3
	EDU 217	Educating Young Children with Special Needs	3
	EDU 285	Teaching Profession With Field Experience	3
EDU 280	Practicum for Paraprofessionals	2	
<b>Elective (6 credits)</b>			
Choose Two:	EDU 242	Art for Children	6
	EDU 246	Music for Children	
	EDU 125	Teaching Literacy through Storytelling	
	EDU 225	Literature for Children	
	EDU 205	Children, Families and Communities	
	EDU 208	Nutrition, Health and Safety of Children	
EDU 201	Cognitive Activities and STEM for Young Children		

**Total Required Hours: 60-61 credits**

\*Recommended Courses

## Paraprofessional Studies Autism Specialist AAS

Subject	Course	Title	Credits
<b>General Education Requirements (27-28 credits)</b>			
Mathematics	MAT 108 or	Understanding K-8 Mathematics	3-4
	MAT 121 or higher	Intermediate Algebra	
Communication	ENG 101	English Composition I	3
	ENG 102 or	English Composition II	3
	ENG 115 or	Technical Writing	
	ENG 125	Business Writing	3
	COM 101 or	Introduction to Communication	
	COM 110	Interpersonal Communication	
	Social Science	POL 101	American Government
PSY 101		Introduction to Psychology	3
EDU 247 or		Multicultural Education	3
HIS 101 or		U.S. History to 1877	
HIS 102 or	U.S. History Since 1877		
Natural Science	HIS 115	U.S. History Since 1945	3
	Any BIO or	Any Biology Course	
	Any CHM or	Any Chemistry Course	
Humanities	ANY PHY	Any Physical Science Course	3
	EDU 242	Art for Children	3
<b>Secondary Core Course Requirements (36 credits)</b>			
	PSY 201	Child Psychology	3
	EDU 125 or	Teaching Literacy through Storytelling	3
	EDU 225	Literature for Children	
	EDU 101	Introduction to Teacher Education	1
	PSY 215	Adolescent Psychology	3
	EDU 212	Foundations of Education in a Diverse Society	3
	EDU 222	Educational Technology	3
	EDU 240	Educational Psychology	3
	EDU 250	Education of Exceptional Learners	3
	EDU 252	Autism Spectrum Disorders	3
	EDU 255	Social Communication & Sensory Integration	3
	EDU 285	Teaching Profession with Field Experience	3
	EDU 280	Practicum for Paraprofessionals	2
	PSY 200	Applied Behavioral Analysis	3
<b>Elective (3 credits)</b>			
Choose One:	EDU 246	Music for Children	3
	EDU 247	Multicultural Education	
	EDU 125	Teaching Literacy through Storytelling	
	EDU 225	Literature for Children	
	EDU 205	Children, Families and Communities	
	EDU 208	Nutrition, Health and Safety of Children	
	EDU 201	Cognitive Activities and STEM for Young Children	
<b>Total Required Hours: 66-67 credits</b>			

## Programming AAS

Subject	Course	Title	Credits
<b>General Education Requirements (16 credits)</b>			
Mathematics	MAT 105 (or higher)	Math Elective	3
Communication	ENG 101, 102, 115	Writing Elective	3
	COM 101, 104, 106, 110	Communication Elective	3
Natural Science	CHM 101 or	Introduction to Chemistry	3
	BIO 105 or	Essentials in Biology	
	GEO 103 or	Physical Geography	
	BIO 108 or	Trends in Science	
	BIO 110 or	Human Biology	
	PHY 105 or	Environmental Geology	
	PHY 111 or	Introduction to Physical Science	
	PHY 125 or PHY 130	Introduction to Physical Geology Astronomy	
Social Science	HIS 101 or	US History to 1877	3
	HIS 102 or	US History Since 1877	
	HIS 103 or	African American History to 1877	
	HIS 104	African American History since 1877	
Social Science	POL 101	American Government	3
	POL 102	State & Local Government	
Institutional Elective	COL 101	College Success Seminar	1
<b>Computer Science Core Requirements (14 credits)</b>			
	CPT 103	Microcomputer Applications	3
	CPT 105	Ethics in Technology	3
	CPT 135	Computer Science 1 with Python	4
	CPT 200	System Analysis & Design Capstone	3
	CPT 207	Career Development for Technology Professionals	1
<b>Programming Core Course Requirements (18 credits)</b>			
	CPT 106	Operating Systems	3
	CPT 181	SQL Programming	3
	CPT 182, 189	Programming Elective	3
	CPT 185	C+ Programming	3
	CPT 201	Database Design & Administration	3
	CPT 281, 287	Data Structures Elective	3
<b>Programming Elective Courses (12 credits)</b>			
	CPM 160	Frontend Web Development (HTML/CSS/JavaScript)	3
	CPM 190	Backend Web Development (JavaScript/XML/PHP/MySQL)	3
	CPM 240	Web Development Process	3
	CPT 188	Javascript	3
	CPT 104	Animation & Gaming w/Unity	3
	CPT 121	Basics of Data Communications	3
	CPT 160	Mobile Apps Development	3
	CPT 182	Computer Science II w/C ++	3
	CPT 189	Computer Science II w/Java	3
	CPT 198	Computer Science Internship	1-3
	CPT 250	Understand Data W/Apache Spark	3
	CPT 260	Oracle Programming	3
	CPT 281	Introduction to Data Structures with C++	3
	CPT 287	Introduction to Data Structures with Java	3
	IT 140	Programming for System Administrators	3
	IT 170	Security Fundamentals	3
	IT 171	Ethical Hacking	3

**Total Required Credit Hours: 60 credit hours**

## Skilled Trades AAS

Subject	Course	Title	Credits		
<b>General Education Requirements (16 credits)</b>					
Mathematics	MAT 105 or higher	Applied Mathematics or higher	3		
	COM 101 or COM 104	Introduction to Communication Small Group Communication			
Communication	COM 106 or COM 110	Public Speaking Interpersonal Communication	3		
	ENG 101 or ENG 102 or ENG 115	English Composition I English Composition II Technical Writing			
	Social Sciences	HIS 101 or HIS 102 or HIS 103 or HIS 104 or POL 101		U.S. History to 1877 or U.S. History Since 1877 or African American History to 1877 African American History Since 1877 American Government	3
		CHM 101 or BIO 105 or BIO 108 or BIO 110 or		Introduction to Chemistry Essentials of Biology Trends in Science Human Biology	
Natural Science		PHY 105 or PHY 111 or PHY 125 or PHY 130	Environmental Geology Introduction to Physical Science Introduction to Physical Geology Astronomy	3	
		College 101 Requirement	COL 101		

### Core Course Requirements (45 credits)

This requirement is fulfilled by the approved completion of the Journeyman's Certificate from the Bureau of Apprenticeship and Training, a division of the U.S. Department of Labor. These credit hours will be granted at the completion of all the other A.A.S. degree requirements.

**Total Required Hours: 61 credits**

## Supply Chain and Logistics AAS

Subject	Course	Title	Credits
<b>General Education Requirements (16-17 credits)</b>			
Math	MAT 105 or higher	Applied Mathematics	3-4
	COM-101, COM-104, COM-106, COM-110	Communication Elective	3
Communication	ENG-101 or	English Composition I	3
	ENG-102 or	English Composition II	
	ENG-115	Technical Writing	
Social Science	HIS 101 or	U.S. History to 1877 or	3
	HIS 102 or	U.S. History Since 1877 or	
	HIS 103 or	African American History to 1877	
	HIS 104 or	African American History Since 1877	
	POL 101	American Government	
	POL-102	State & American Government	
	CHM 101	Introduction to Chemistry	
Natural Science	BIO 105	Essentials of Biology	3
	BIO 108	Trends in Science	
	BIO 110	Human Biology	
	BIO 122	Environmental Science	
	PHY 105	Environmental Geography	
	PHY 111	Introduction to Physical Science	
	PHY 125	Introduction to Physical Geography	
PHY 130	Astronomy		
<b>Core Course Requirements (38 credits)</b>			
	LGM-100	Survey of Industries	1
	LGM-101	Logistics and Supply Chain I	3
	LGM-105	Intro to Supply Chain Operational Mgmt.	3
	LGM-205	Global Logistics, Trade, and Culture	3
	LGM-210	Logistics and Supply Chain II	3
	MFG-101	Principles of Safety	3
	MFG-111	Principles of Quality Practices	3
	MFG-141	Principles of Green Production	3
	MFG-201	Principles of Mfg. Processes and Prod.	3
	MFG-215	Problem Solving Tactics in Mfg.	3
	MFG 225 or	Supervisory Skills	3
	BUS-206	Human Resources Management	3
	GEO-120	Introduction to GIS	3
Pick One	BUS-204 or	Total Quality Operations Management	3
	BUS-208	Entrepreneurship/ Small Bus Mgmt.	
	MFG-290	Internship Capstone	
<b>Electives (6 credits)</b>			
	LGM-215	Intro to Data Analytics	3
	ACT-101	Applied Accounting	3
Pick two:	CAD-104	Intro to AutoCAD	3
	CAD-106	Intro to Autodesk Inventor	3
	BUS-210	Organizational Behavior	3
<b>Total Required Hours: 60-62 credits</b>			

## Welding AAS

SUBJECT	COURSE	TITLE	CREDITS	
<b>General Education Requirements (16 credits)</b>				
Mathematics	MAT 105	Applied Mathematics or higher	3	
	ENG 101 or ENG 102 or ENG 115	English Composition I English Composition II Technical Writing	3	
Communication	COM 101 or COM 104 or COM 106 or COM 110	Introduction to Communication Small Group Communication Public Speaking Interpersonal Communication	3	
	HIS 101 or HIS 102 or HIS 103 or HIS 104 or	U.S. History to 1877 or U.S. History Since 1877 or African American History to 1877 African American History Since 1877	3	
	POL 101 POL 102	American Government State & Local Government		
	CHM 101 or BIO 105 or BIO 108 or BIO 110 or	Introduction to Chemistry Essentials of Biology Trends in Science Human Biology	3	
Natural Science	PHY 105 or PHY 111 or PHY 125 or PHY 130	Environmental Geology Introduction to Physical Science Introduction to Physical Geology Astronomy		
	College 101 Requirement	COL 101	College Success Seminar	1
	<b>Core Course Requirements (45 credits)</b>			
	WLD 101	Introduction to Welding	3	
	WLD 111	Thermal Cutting	2	
	WLD 121	Shielded Metal Arc Welding I	4	
	WLD 221	Shielded Metal Arc Welding II	4	
	WLD 131	Gas Metal Arc Welding I	3	
	WLD 231	Gas Metal Arc Welding II	4	
	WLD 141	Flux Cored Arc Welding I	3	
	WLD 241	Flux Cored Arc Welding II	4	
	WLD 151	Gas Tungsten Arc Welding I	4	
	WLD 251	Gas Tungsten Arc Welding II	4	
	MFG 101	Principles of Safety	3	
	MFG 132	Precision Tool & Measurement	3	
	MFG 130	Basic Blueprint Reading	3	
	MFG 290	Internship Capstone	1	

**Total Required Hours: 61 credits**





## ASSOCIATE OF ARTS IN TEACHING GENERAL EDUCATION REQUIREMENTS

### SOCIAL SCIENCES

To develop students' understanding of themselves and the world around them through study of content and the processes used by historians and social and behavioral scientists to discover, describe, explain, and predict human behavior and social systems. Students must understand the diversities and complexities of the cultural and social world, past and present, and come to an informed sense of self and others.

#### Nine credit hours

PSY 101

HIS 102\* or HIS 146

POL 101\* or POL 102

\* Students must take either HIS 102 or POL 101 to meet state requirements.

### HUMANITIES

To develop students' understanding of the ways in which humans have addressed their condition through imaginative work in the humanities and fine arts; to deepen their understanding of how that imaginative process is informed and limited by social, cultural, linguistic, and historical circumstances; and to appreciate the world of the creative imagination as a form of knowledge.

#### Six credit hours

EDU 225 and

Choose one:

LIT 200, LIT 201, LIT 207, LIT 210, LIT 215, LIT 220, LIT 222, LIT 223, LIT 230, LIT 240, LIT 250, LIT 252, LIT 260, LIT 271, LIT 272, LIT 273, LIT 275, LIT 280, LIT 289

### COMMUNICATION

To develop students' effective use of the English language and quantitative and other symbolic systems essential to their success in school and in the world. Students should be able to read and listen critically and to write and speak with thoughtfulness, clarity, coherence, and persuasiveness.

#### Nine credit hours

ENG 101

ENG 102

COM 101 or 106

**ASSOCIATE OF ARTS IN TEACHING GENERAL EDUCATION REQUIREMENTS (CONTINUED)****GENERAL EDUCATION ELECTIVE**

To develop students' abilities to understand the moral and ethical values of a diverse society and to understand that many courses of action are guided by value judgments about the way things ought to be. Students should be able to make informed decisions through identifying personal values and the values of others and through understanding how such values develop. They should be able to analyze the ethical implications of choices made on the basis of these values.

**Three credit hours**

GEO 100 or  
 EDU 247  
 ECO 100  
 ECO 110  
 ECO 120

**MATHEMATICS**

To develop students' understanding of fundamental mathematical concepts and their applications. Students should develop a level of quantitative literacy that would enable them to make decisions and solve problems and which could serve as a basis for continued learning.

**Four credit hours**

MAT 156 or  
 MAT 158 (for secondary math  
 or science major)

**NATURAL SCIENCE**

To develop students' understanding of the principles and laboratory procedures of life and physical sciences and to cultivate their abilities to apply the empirical methods of scientific inquiry. Students should understand how scientific discovery changes theoretical views of the world, informs our imaginations, and shapes human history. Students should also understand that science is shaped by historical and social contexts.

**Must take 2 Classes and 2 corresponding labs:**

BIO 105/106  
 CHM 101/103  
 PHY 111/113

**This degree also requires completion and passage of the Disposition and MOGEA exams.**

## Early Childhood Education Transfer AAT

Subject	Course	Title	Credits
<b>General Education Requirements (40 credits)</b>			
Mathematics	MAT 156 or	College Algebra - Educators	4
	MAT 158	College Algebra-Gen Ed	
Communication	ENG 101	English Composition I	3
	ENG 102	English Composition II	3
	COM 101 or	Introduction to Communications	3
Social Science	COM 106	Public Speaking	3
	PSY 101	Introduction to Psychology	3
*Preferred by most transfer institutions and meets state requirement.	HIS 102 or	US History Since 1877*	3
	HIS 146	Western Civ: Modern Europe	3
	POL 101 or	American Government*	3
Natural Science (Must take 2 classes and 2 corresponding labs)	POL 102	State and Local Government	3
	BIO 105/106	Essentials of Biology and Essentials of Biology Lab	8
Humanities	PHY 111/113	Intro. to Physical Science & Intro. to Physical Science Lab	8
	CHM 101/103	Intro. to Chemistry and Intro. to Chemistry Lab	
Choose one course:	EDU 225	Literature for Children	3
	LIT 200 or	World Mythology	
	LIT 201 or	Mythology in Western Culture	
	LIT 207 or	Introduction to the Bible as Literature	
	LIT 210 or	American Literature from 1620-1865	
	LIT 215 or	Introduction to Poetry	
	LIT 220 or	American Literature from 1865-Present	
	LIT 222 or	Native American Literature	
	LIT 223 or	African American Literature	
	LIT 230 or	Contemporary Fiction	
	LIT 240 or	Contemporary Literature	3
	LIT 250 or	English Literature before 1800	
	LIT 252 or	Introduction to Shakespeare	
	LIT 260 or	English Literature after 1800	
	LIT 271 or	Literature and Contemporary Cultures	
	LIT 272 or	World Literature - Ancient World through the Renaissance	
	LIT 273 or	World Literature - Enlightenment to 20th Century	
LIT 275 or	Holocaust Literature		
LIT 280 or	Gender Issues in Literature		
LIT 205	Intro to Literature		
LIT 289	Writing about Literature		
Elective - Choose one:	GEO 100 or	Principles of Geography	
	ECO 100* or	Survey Economics	
* If choosing to take economics, please first determine which economics course will transfer to your four-year school of choice.	ECO 110* or	Principles of Macroeconomics	3
	ECO 120* or	Principles of Microeconomics	
	EDU 247**	Multicultural Education	
COL-101	College Success Seminar	1	
<b>Core Course Requirements (18 credits) - All EDU courses must be completed with a grade of "C" or higher and cumulative GPA of 3.00</b>			
	EDU 101	Introduction to Teacher Education	1
	EDU 212	Foundations of Education in a Diverse Society	3
	EDU 222	Educational Technology	3
	EDU 240	Education Psychology	3
	EDU 285	Teaching Profession with Field Experience	3
	EDU 286	Teaching & Learning in PK-12 Schools - Education Practicum I	4
	EDU 290	Portfolio Assessment in Education	1
<b>Electives - Choose 2 Courses From Below (6 credits)</b>			
	EDU 125	Teaching Literacy through Storytelling	3
	EDU 201	Cognitive Activities & STEM for Young Children	3
	EDU 202	Music, Movement & Creative Play for Young Children	3
	EDU 205	Children, Families, and Communities	3
	EDU 208	Nutrition, Health, and Safety of Young Children	3
*Courses are a part of the Statewide Articulation	EDU 225	Literature for Children	3

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AAT Agreement	EDU 242	Art for Children	3
	EDU 247*	Multicultural Education	3
	EDU 217	Educating Young Children with Special Needs	3
	EDU 250*	Education of Exceptional Learners	3
	EDU 252	Autism Spectrum Disorders	3
	EDU 255	Social Communication and Sensory Integration	3
<b>Total Required Hours: 64 credits</b>			

## Elementary Education Transfer AAT

Subject	Course	Title	Credits	
<b>General Education Requirements (40 credits)</b>				
Mathematics	MAT 156 or MAT 158	College Algebra - Educators College Algebra-Gen Ed	4	
	ENG 101	English Composition I	3	
Communication	ENG 102	English Composition II	3	
	COM 101 or COM 106	Introduction to Communications Public Speaking	3	
	PSY 101	Introduction to Psychology	3	
Social Science	HIS 102 or	US History Since 1877*	3	
	*Preferred by most transfer institutions and meets state requirement.	HIS 146 POL 101 or POL 102	Western Civ: Modern Europe American Government* State and Local Government	3
Natural Science  (Must take 2 classes and 2 corresponding labs)		Essentials of Biology and Essentials of Biology Lab	8	
	BIO 105/106 PHY 111/113	Intro. to Physical Science & Intro. to Physical Science Lab		
	CHM 101/103	Intro. to Chemistry and Intro. to Chemistry Lab		
Humanities	EDU 225	Literature for Children	3	
	Choose one course:	LIT 200 or LIT 201 or LIT 207 or LIT 210 or LIT 215 or LIT 220 or LIT 222 or LIT 223 or LIT 230 or LIT 240 or LIT 250 or LIT 252 or LIT 260 or LIT 271 or LIT 272 or LIT 273 or LIT 205 or LIT 275 or LIT 280 or LIT 289	World Mythology Mythology in Western Culture Introduction to the Bible as Literature American Literature from 1620-1865 Introduction to Poetry American Literature from 1865-Present Native American Literature African American Literature Contemporary Fiction Contemporary Literature English Literature before 1800 Introduction to Shakespeare English Literature after 1800 Literature and Contemporary Cultures World Literature - Ancient World through the Renaissance World Literature - Enlightenment to 20th Century Intro to Literature Holocaust Literature Gender Issues in Literature Writing about Literature	
Multicultural/Valuing- Choose one:		ECO 100* or ECO 110* or	Survey Economics Principles of Macroeconomics	3

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<p>* If choosing to take economics, please first determine which economics course will transfer to your four-year school of choice.</p>	<p>ECO 120* or GEO 100</p>	<p>Principles of Microeconomics Principles of Geography</p>	<p>3</p>
<p>** Cannot count for both EDU and MVC credit</p>	<p>EDU 247** COL-101</p>	<p>Multicultural Education (most commonly recommended) College Success Seminar</p>	<p>1</p>
<p><b>Core Course Requirements (18 credits) - All EDU courses must be completed with a grade of "C" or higher and cumulative GPA of 3.00</b></p>			
	<p>EDU 101 EDU 212 EDU 222 EDU 240 EDU 285 EDU 286 EDU 290***</p>	<p>Introduction to Teacher Education Foundations of Education in a Diverse Society Educational Technology Education Psychology Teaching Profession with Field Experience Teaching &amp; Learning in PK-12 Schools - Education Practicum I Portfolio Assessment in Education</p>	<p>1 3 3 3 3 4 1</p>
<p><b>Electives** (6 credits)</b></p>			
<p>Choose one (3 credits):</p>	<p>EDU 242 EDU 245 EDU 246 EDU 125</p>	<p>Art for Children (UMSL Cohort required) Integrating Movement &amp; the Arts of Elem. Ed Music for Children Teaching Literature through Storytelling</p>	<p>3</p>
<p>Choose one (3 credits):</p>	<p>EDU 225 EDU 242 EDU 246</p>	<p>Literature for Children Art for Children Music for Children</p>	<p>3</p>
<p>*Part of Statewide Articulation AAT Agreement</p>	<p>EDU 247* EDU 250* EDU 252</p>	<p>Multicultural Education Education for Exceptional Learners Autism Spectrum Disorders</p>	<p>3</p>
<p><b>Total Required Hours: 64 credits</b></p>			

\* Students must take either HIS 102 or POL 101 to meet state requirements

\*\* Entire State exam must be passed for successful completion of EDU 290. State Exam covers English, Math, Science and Social Studies – must achieve a passing score in all areas – recommend taking before completion of 30 credit hours.

## Secondary Education Transfer AAT

Subject	Course	Title	Credits
<b>General Education Requirements (40 credits)</b>			
Mathematics	MAT 156 or	College Algebra - Educators	4
	MAT 158	College Algebra- Gen Ed	
	ENG 101	English Composition I	3
Communication	ENG 102	English Composition II	3
	COM 101 or	Intro to Communications	3
	COM 106	Public Speaking	
Social Science	PSY 101	Introduction to Psychology	3
	HIS 102 or	US History Since 1877*	3
*Preferred by most transfer institutions and meets state requirement.	HIS 146	Western Civ: Modern Europe	
	POL 101 or	American Government*	3
	POL 102	State and Local Government	
Natural Science	BIO 105/106	Essentials of Biology and Essentials of Biology Lab	8
Option 1 (Must take 2 classes and 2 corresponding	PHY 111/113	Intro. to Physical Science & Intro. to Physical Science Lab	
	CHM 101/103	Intro. to Chemistry and Intro. to Chemistry Lab	5
Option 2-Secondary Science Majors only	CHM-115	General Chemistry 1	
	PHY 111 or	Intro to physical Science	3
	BIO-150	Gen Bio: Cells to Organisms	
Humanities	EDU 225 (most commonly recommended) or	Literature for Children	6
	LIT 200 or	World Mythology	
	LIT 201 or	Mythology in Western Culture	
	LIT 207 or	Introduction to the Bible as Literature	
	LIT 210 or	American Literature from 1620-1865	
	LIT 215 or	Introduction to Poetry	
	LIT 220 or	American Literature from 1865-Present	
	LIT 222 or	Native American Literature	
	LIT 223 or	African American Literature	
	LIT 230 or	Contemporary Fiction	
	LIT 240 or	Contemporary Literature	
	LIT 250 or	English Literature before 1800	
	LIT 252 or	Introduction to Shakespeare	
	LIT 260 or	English Literature after 1800	
	LIT 271 or	Literature and Contemporary Cultures	
	LIT 272 or	World Literature - Ancient World through the Renaissance	
	LIT 273 or	World Literature - Enlightenment to 20th Century	
LIT 275 or	Holocaust Literature		
LIT 280 or	Gender Issues in Literature		
LIT 205	Intro to Literature		
LIT 289	Writing about Literature		
Elective - Choose one:	GEO 100 or	Principles of Geography	3
	ECO 100* or	Survey Economics	
* If choosing to take economics, please first determine which economics course will transfer to your four-year school of choice.	ECO 110* or	Principles of Macroeconomics	3
	ECO 120* or	Principles of Microeconomics	
** Cannot count for both EDU and MVC credit.	EDU 247**	Multicultural Education	1
	COL-101	College Success Seminar	

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**Core Course Requirements (18 credits) - All EDU courses must be completed with a grade of "C" or higher and cumulative GPA of 3.00**

EDU 101	Introduction to Teacher Education	1
EDU 212	Foundations of Education in a Diverse Society	3
EDU 222	Educational Technology	3
EDU 240	Education Psychology	3
EDU 285	Teaching Profession with Field Experience	3
EDU 286	Teaching & Learning in PK-12 Schools - Education Practicum I	4
EDU 290	Portfolio Assessment in Education***	1

**Electives - Choose 2 Courses From Below (6 credits)**

	EDU 225 or	Literature for Children	
	EDU 247* or	Multicultural Education	
*Courses are a part of the	EDU 250* or	Education of Exceptional Learners	
Statewide Articulation AAT	EDU 252 or	Autism Spectrum Disorders	3-6
Agreement	EDU-242 or	Art for Children	
	EDU-246 or	Music for Children	
	EDU 245 or	Integrating Movement & the Arts in Elementary Ed	
Secondary majors may take	PSY 210 or	Human Growth and Development	
one of the courses listed in			
this block. It could be one			
of the psychology courses	PSY 215 or	Adolescent Psychology	3
or one course in their			
content field as an EDU			
elective (above what is	Content Course	Content Area Course (above what is already required	
required).		for the AAT.	

**Total Required Hours: 64 credits**

\*\* Students must take HIS 102 or POL 101 to meet state requirements.

\*\*\* Required state exams must be passed for successful completion of EDU 290. State Exam covers English, Math, Science and Social Studies – must achieve a passing score in all areas – recommend taking before completion of 30 credit hours.



## Creative Writing AFA

Subject	Course	Title	Credits	
<b>General Education Requirements (26 credits)</b>				
Mathematics <sup>^</sup>	MAT 155 or higher	Contemporary College Math or higher	4	
Communication	ENG 101	English Composition I	3	
		Any COM MOTR course (minus 200-level)	3	
Social Science	HIS 101 or	U.S. History to 1877	3	
	HIS 102 or	U.S. History Since 1877		
	HIS 103 or	African-American History to 1877		
	HIS 104 or	African-American History Since 1877		
	POL 101 or	American Government		
Humanities		ENG 201, LIT 205, and any 3-credit 200-level English course	9	
Natural Sciences		Any CORE 42 BIO, CHM, or PHY	3	
	COL 101	College Seminar	1	
<b>Core Course Requirements (35 credits)</b>				
Subject	Course	Title	Credits	
One of the following:	ENG 202	Creative Writing II	3	
	ENG 203	Self-Publishing Workshop		
Three of the following not used for general education requirements:	ENG 200	Book Writing Workshop	9	
	ENG 206	Fiction Writing		
	ENG 207	Poetry Writing		
	ENG 208	Writing Creative Nonfiction		
	ENG 209	Writing for Stage & Screen		
	ENG 210	Writing Science Fiction, Fantasy & Surrealism		
	ENG 250	Advanced Creative Writing		
	ENG 299	Topics in Creative Writing		
One of the following:	LIT 210	American Literature I	3	
	LIT 220	American Literature II		
	LIT 250	British Literature I		
	LIT 260	British Literature II		
	LIT 215	Introduction to Poetry		
	LIT 216	Dramatic Literature		
	LIT 230	Contemporary Fiction		
	LIT 240	Contemporary Literature		
	ENG 298	Creative Writing Portfolio		1
	ENG 102	English Composition II		3
	Any 2 CORE 42 Social Science courses	6		
	Any 1 CORE 42 Natural Science + lab course	4		
	HIS 145 + any other CORE 42 Humanities course or two foreign language courses*	6		
<b>Total Hours Required For Graduation: 61</b>				

<sup>^</sup> Students opting to transfer to the Truman State University BFA program are required to take MAT 157.

\* Students opting to transfer to the Truman State University BFA program are required to take two Foreign Language courses.

## Music Transfer AFA

Subject	Course	Title	Credits
<b>General Education Requirements (24 credits)</b>			
Communication	ENG 101 or ENG 102	English Composition I or English Composition II	3
		Any COM MOTR course (minus 200-level)	3
Mathematics	MAT 155**	Contemporary College Math or higher	4
	HIS 101 or	U.S. History to 1877	
	HIS 102 or	U.S. History Since 1877	
Social Science	HIS 103 or	African-American History to 1877	3
	HIS 104 or	African-American History Since 1877	
	POL 101	American Government	
Natural Science		Any CORE 42 BIO, CHM, or PHY	3
Humanities	MUS 231	Music History I	3
	MUS 232	Music History II	3
	MUS 115/116/117/118 or	Chamber Choir I, II, III, IV	
	MUS 105/106/107/108 or	SCC Singers I, II, III, IV	
	MUS 175/176/177/178 or	Concert Band I, II, III, IV	
	MUS 145, 146, 147, 148 or	Jazz Band I, II, III, IV	
	MUS 135/136/137/138 or	Women's Chorale I, II, III, IV	1
	MUS 195, 196, 197, 198 or	Wind Ensemble I, II, III, IV	
	MUS 165, 166, 167 or	Instrumental Chamber Ensemble I, II, III	
	MUS 141, 142, 143, 144 or	Show Choir I, II, III, IV	
	MUS 185/186/187/188	Orchestra I, II, III, IV	
	COL-101	College Success Seminar	1
<b>Music Core Course Requirements (31 credits)</b>			
	MUS 021 (all 4 semesters)	Recital and Concert Attendance	0
	MUS 131/132/281/282	Music Theory I, II, III, IV	12
	MUS 133/134/283/284	Ear Training and Sight Singing I, II, III, IV	4
	MUS 119/120/219/220	Piano Proficiency I, II, III, IV	4
	<i>Large Ensemble - Choose 3 courses from the following: 3 semesters of the same ensemble is highly recommended but may be earned with a combination of ensemble credits</i>		
	MUS 115/116/117/118 or	Chamber Choir I, II, III, IV	
	MUS 105/106/107/108 or	SCC Singers I, II, III, IV	
	MUS 175/176/177/178 or	Concert Band I, II, III, IV	
	MUS 145, 146, 147, 148 or	Jazz Band I, II, III, IV	
	MUS 135/136/137/138 or	Women's Chorale I, II, III, IV	3
	MUS 195, 196, 197, 198 or	Wind Ensemble I, II, III, IV	
	MUS 165, 166, 167 or	Instrumental Chamber Ensemble I, II, III	
	MUS 141, 142, 143, 144 or	Show Choir I, II, III, IV	
	MUS 185/186/187/188 or	Orchestra I, II, III, IV	
<b>(2 credits each semester in primary instrument) Private Lessons - 4 or 8 total credits of Applied Music Lessons (4 semesters of 2 credits each in your primary instrument is highly recommended but may be earned with a combination of the 1 or 2 credit lessons in more than one area. Students following the Music Education Pathway should take 4 semesters of 1 credit lessons</b>			
	MVV or	Applied Voice	
	MVK or	Applied Piano or Organ	
	MVG or	Applied Guitar, Bass Guitar, or Jazz Guitar	

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MVP or	Applied Percussion	4 or 8
MVS or	Applied Strings	
MVW or	Applied Woodwinds	
MVB	Applied Brass	

**Music Elective Requirements: Choose 6-10 credits total of any combination of courses taken from this list, the ensemble list, the private lesson list, or approved by the Music Department Chair. Students following the Music Education pathway will be encouraged to take classes from the list of electives that best allow for transfer into a four-year Music Education program.**

MUS 162	ENGLISH/ITALIAN DICTION	1
MUS 163	FRENCH/GERMAN DICTION	1
MUS 164	JAZZ IMPROVISATION I	2
MUS 210	MUSIC TYPOGRAPHY	2
MUS 225	ELEMENTS OF CONDUCTING	3
MUS/THE 229	HISTORY OF AMERICAN MUSICAL THEATRE I	3
MUS/THE 230	HISTORY OF AMERICAN MUSICAL THEATRE II	3
MUS 234	JAZZ HISTORY	3
MUS 250	MUSIC AUDIO PRODUCTION I	3
MUS 251	MUSIC AUDIO PRODUCTION II	3
MUS 259	MUSICAL THEATRE WORKSHOP I	1
MUS 260	MUSICAL THEATRE WORKSHOP II	1
MUS 264	JAZZ IMPROVISATION II	2
MUS 285	TEACHING METHODS: WOODWINDS	2
MUS 286	TEACHING METHODS: BRASS	2
MUS 287	TEACHING METHODS: STRINGS	2
MUS 288	TEACHING METHODS: PERCUSSION	2
MUS 295*	OPERA THEATRE WORKSHOP	1-2
MUS-261	Music Business	3
EDU-101**	Intro to Teacher Education	1
EDU-212**	Foundations of Education in a Diverse Society	3
PSY-101**	Introduction to Psychology	3
EDU-222**	Educational Technology	3
EDU-240**	Educational Psychology	3
MUS 299	SOPHOMORE RECITAL	0

**Total Required hours: 61 credits**

\* May be repeated for additional degree credit

\*\* Classes for Music Education Students

## Studio Art or Graphic Design Transfer AFA

Subject	Course	Title	Credits
<b>General Education Requirements (26 credits)</b>			
Communication	ENG 101	English Composition I	3
		Any COM MOTR course (minus 200-level)	3
Mathematics	MAT 155	Contemporary College Math or higher	4
	HIS 101 or HIS 102 or HIS 103 or HIS 104 or POL 101	U.S. History to 1877 U.S. History Since 1877 African-American History to 1877 African-American History Since 1877 American Government	3
Natural Science		Any CORE 42 BIO, CHM, or PHY	3
Humanities	ART 1200	2D Design	3
	ART 1500	Survey of Western Art History I	3
	ART 1505	Survey of Western Art History II	3
	COL 101	College Success Seminar	1
<b>Core Course Requirements (18 credits)</b>			
	ART 1105*	Digital Art Studio	3
	ART 1205	Color Theory	3
	ART 1300	3-D Design	3
	ART 1400	Drawing I	3
	ART 1405	Drawing II	3
	ENG-102	English Composition II	3
<b>Studio Art Electives (18 credits)</b>			
	5 additional studio art courses reflecting a breadth of studio experiences. Studio Art Option majors must take at least one art elective from each of the three groups of art electives as follows:		
Group 1	ART 2300 or ART 2310 or ART 2400 or ART 2900	Drawing III, or Figure Drawing I, or Painting I or Illustration I	3
	ART 2500 or ART 2550 or		
Group 2	ART 2600	Ceramics I, or Jewelry I, or Sculpture I	3
	ART 2700 or ART 2750 or		
Group 3	ART 2810	Intro to Printmaking, or Fibers or Digital Photography I	3
		The additional 2 art electives can be from whichever area the student has the most interest, or another area they have not yet tried including Graphic Design courses.	
2 additional Art Electives			6
	ART 2999****	Sophomore Studio Art Seminar	3
<b>Graphic Design Electives - (18 credits)</b>			
*Electives - Choose 5 courses from the following:	ART 2100	History of Graphic Design	15
	ART 2110	Visualization & Layout	
	ART 2120	Typography	
	ART 2130	Digital Imaging & Illustration	
	ART 2140	Web Design	
	ART 2810	Digital Photo I	
	ART 2160	Animation & Motion Graphics	
ART 2170	Video Production		
Capstone	ART 2199	Portfolio Design & Professional Practices	3
<b>Art Education Electives (19 credits)</b>			
	3 additional studio art courses reflecting a breadth of studio experiences. One course from Group (1,2 & 3) is required. Seven additional credit hours of EDU-related coursework, based on four-year school's degree requirements.		
	ART 2300 or ART 2310 or ART 2400 or		

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Group 1	ART 2900 ART 2500 or ART 2550 or	Drawing III, or Figure Drawing I, or Painting I or Illustration I	3
Group 2	ART 2600 ART 2700 or ART 2750 or	Ceramics I, or Jewelry I, or Sculpture I	3
Group 3	ART 2810	Intro to Printmaking, or Fibers or Digital Photography I	3
	EDU-101	Introduction to Teacher Education	1
Education Group	EDU-212	Foundations of Education in a Diverse Society	3
	PSY-101, EDU- 222 or EDU-240	Intro to Psychology, Educational Technology, or Educational Psychology	3
	ART 2999	Sophomore Studio Art Seminar	3

\* Graphic Design students may also choose Studio Art courses but should consult with the Graphic Design Chair for advising.

\*\* ART 1105 also fulfills the SCC computer literacy requirement.

**Total Required Hours: 62-63 credits**

## Theatre AFA

Subject	Course	Title	Credits
<b>General Education Requirements (26 credits)</b>			
Communication	ENG 101 or ENG 102	English Composition I or English Composition II	3
		Any COM MOTR course (minus 200-level)	3
Mathematics	MAT 155	Contemporary College Math or higher	4
	HIS 101 or HIS 102 or HIS 103 or HIS 104 or POL 101 or	U.S. History to 1877 U.S. History Since 1877 African-American History to 1877 African-American History Since 1877 American Government	3
Natural Science		Any CORE 42 BIO, CHM, or PHY	3
Humanities	THE 122	Introduction to Theatre	3
	THE 128	Acting I	3
	THE 120	Intro to Script Analysis	3
	COL-101	College Success Seminar	1
<b>Core Course Requirements (10 credits)</b>			
	THE-140	Stagecraft	3
	THE-220	Stage Makeup	3
	THE-150	Rehearsal and Production I	1
	THE-151	Rehearsal and Production II	1
	THE-250	Rehearsal and Production III	1
	THE-251	Rehearsal and Production IV	1
<b>Elective Course Requirements (24-26 credits)</b>			
<b>Acting Pathway</b>			
	THE-228	Acting II	3
	THE-144	Modern Dance I or	
	THE-146	Jazz Dance I or	4
	THE-148	Tap Dance I (pick 2 of the 3)	
	THE-115/COM-116	Voice and Diction	3
	THE/MUS-229	Musical Theatre History up to 1943 or	3
	THE/MUS-230	Musical Theatre History since 1943	
	THE-240	Intro to Theatre Design	3
	THE-261	Intro to Theatre Management	3
	THE-210	Oral Interpretation	3
	ENG 208	Writing for Stage and Screen	3
<b>Musical Theatre Pathway</b>			
	THE-228	Acting II	3
	THE-144	Modern Dance I or	4
	THE-146	Jazz Dance I or	
	THE-148	Tap Dance I (pick 2 of the 3)	
	MVV-101	Voice Lessons I	2
	MVV-102	Voice Lessons II	2
	MUS-105 or 115	SCC Singers I or Chamber Choir I	1
	MUS-106 or 116	SCC Singers II or Chamber Choir II	1
	MUS-259	Musical Theatre Workshop I	1
	MUS-260	Musical Theatre Workshop II	1
	THE/MUS-229	Musical Theatre History up to 1943 or	3
	THE/MUS-230	Musical Theatre History since 1943	

<b>Technical Theatre Pathway</b>	MUS-134	Ear Training and Sight Singing II	1
	THE-221	Introduction to Costuming	3
	THE-262	Introduction to Stage Management	3
	THE-241	Introduction to Stage Lighting	3
	THE-242	Introduction to Sound Design	3
	THE-240	Intro to Theatre Design	3
	CPM-220	3-D Modeling and Animation	3
	THE-277	Stage Management Practicum	1-3
	THE-278	Theatre Design Practicum	1-3
	THE-261	Intro to Theatre Management	3

**Additional Theatre Elective Options**

THE-199	Theatre Internship	1-3
THE-277	Stage Management Practicum	1-3
THE-278	Theatre Design Practicum	1-3
THE-276	Theatre Directing Practicum	1-3

**Total Required hours: 60-62 credits**

**Students are able to take practicum and internship courses as elective credit no matter which pathway they choose.**

**Agriculture AS**

SUBJECT	COURSE	TITLE	CREDITS
<b>General Education Requirements - 34-36 Credit Hours</b>			
Mathematics	MAT 158 or	College Algebra – General Education	4
	MAT 162	College Algebra – STEM	
Communications	ENG 101	English Composition I	3
	ENG 102 or	English Composition II	3
	ENG 115	Technical Writing	
	COM 101 or	Introduction to Communication	3
COM 106	Public Speaking		
Social Science	HIS 101 or	US History to 1877	3
	HIS 102 or	US History Since 1877	
	POL 101	American Government	
		Any Social Science Course	
Natural Science	BIO 105/106 or	Essentials of Biology with Lab	4-5
	BIO 150/151	General Biology with Lab	
	CHM 101/103 or	Introduction to Chemistry with Lab	4-5
	CHM 115	General Chemistry I with Lab	
Humanities		Any Humanities Course	3
Elective	Social Science or	Any Social Science Course	3-4
	Humanities or	Any Humanities Course	
	MAT 175	Introduction to Statistics	1
	COL 101	College Success Seminar	
<b>Core Course Requirements - 26 Credit Hours</b>			
	AGR 100	Agriculture Industries	1
	AGS 170/171	Plant Science with Lab	4
	AGS 180	Animal Science	4
	AGB 110	Agricultural Economics	4
	AGR 105	Sustainable Agriculture and the Environment	3
	AGS 210/211	Soil Science with Lab	4
	AGR 120 or	Precision Agriculture	3
	AGR 110	Introductory Forestry	
	AGR 200	Agribusiness Internship	3
<b>Total Required Hours: 60-62 credits</b>			



## Biology AS

Subject	Course	Title	Credits
<b>General Education Requirements (25-26 credits)</b>			
Mathematics	MAT 180 or MAT 210	Calculus and Analytic Geometry I Survey Calculus	4-5
	ENG 101	English Composition I	
Communication	ENG 102	English Composition II	3
	COM 101 or COM 110	Introduction to Communications Interpersonal Communication	3
	HIS 101 or HIS 102 or HIS 103 or HIS 104 or POL 101	US History to 1877 US History Since 1877 African American History to 1877 African American History Since 1877 American Government	
Natural Science	BIO 150	General Biology: Cells to Organisms	5
Humanities		Choose any CORE 42-Approved Humanities Course	3
	COL 101	College Success Seminar	1
<b>Core Course Requirements (31 credits)</b>			
	BIO 151	General Biology: Organisms to Environment	5
	CHM 115	General Chemistry I	5
	CHM 116	General Chemistry II	5
	CHM 240	Organic Chemistry I	3
	CHM 241	Organic Chemistry II	3
	CHM 243	Organic Chemistry Lab	2
	PHY 150/153	General Physics I w/Lab	4
	PHY 151/154 or BIO 250A/B	General Physics II w/ Lab or Anatomy and Physiology I	4
<b>Elective Course Requirements (6-7 credits)</b>			
	Any transferable Arts, Humanities, Social Sciences Elective or BIO course numbered 200+ or CHM 222	See pathway/4-year degree at transfer school or Quantitative Chemistry	3-4
	Any transferable Social Sciences Elective	See pathway/4-year degree at transfer school	

## Chemistry AS

Subject	Course	Title	Credits
<b>General Education Requirements (26 credits)</b>			
Mathematics	MAT 180	Calculus and Analytic Geometry	5
	ENG 101	English Composition I	3
Communication	ENG 102	English Composition II	3
	COM 101 or COM 110	Introduction to Communications Interpersonal Communication	3
	HIS 101 or HIS 102 or HIS 103 or HIS 104 or POL 101 or	US History to 1877 US History Since 1877 African-American History to 1877 African-American History Since 1877 American Government	3
Natural Science	CHM 115	General Chemistry I	5
Humanities	Choose a CORE 42-approved Arts or Humanities course. See course descriptions in catalog		3
	COL 101	College Success Seminar	1
<b>Core Course Requirements (30-32 credits)</b>			
	CHM 116	General Chemistry II	5
	CHM 222	Quantitative Analysis	4
	CHM 240	Organic Chemistry I	3
	CHM 241	Organic Chemistry II	3
	CHM 243	Organic Chemistry lab	2
	PHY 150 & PHY 153 or PHY 250	General Physics I and Lab or Engineering Physics I	4-5
	PHY 151 & PHY 154 or PHY 251	General Physics II and Lab or Engineering Physics II	4-5
	MAT 230 or BIO 150	Calculus 2 or General Biology: Cells to Organisms	5
<b>Elective Course Requirements (6-8 credits)</b>			
	BIO 151 or MAT 230 or MAT 240 or	General Biology: Organisms to Environment Calculus II or Calculus III or	3-5
	Any transferable Arts, Humanities, or Social Science Elective	See pathway/4-year degree at transfer school	
	Any transferable Arts, Humanities, or Social Science Elective	See pathway/4-year degree at transfer school	3
<b>Total Required Hours: 62-66 credits</b>			

## Computer Science AS

Subject	Course	Title	Credits	
<b>General Education Requirements (45-47 credits)</b>				
	MAT 180	Calculus & Analytical Geometry I	5	
	MAT 230	Calculus & Analytical Geometry II	5	
	MAT 157, 175, 240, 242	Math Elective	3-5	
Communication	ENG 101, 102 or 115	English Elective	3	
	ENG 101, 102 or 115	English Elective	3	
	COM 101, 104, 106, 110	Communication Elective	3	
Social Science	HIS 101 or HIS 102 or HIS 103 or HIS 104 or POL 101	U.S. History to 1877 U.S. History since 1877 African American History to 1877 African American History from 1877 American Government	3	
		Any Core 42 Social & Behavioral Science Course	6	
	Natural Science	Any BIO, CHM, PHY w/Lab	Any CORE 42 Natural Science Course w/lab	4
		Any BIO, CHM, PHY	Any CORE 42 Natural Science Course	3
	Humanities	Any Core42 Humanities & Fine Arts		6
	COL 101	College Success Seminar	1	
<b>Core Course Requirements (7 credits)</b>				
	CPT 105	Ethics in Technology	3	
	CPT 135	Computer Science I w/Python	4	
<b>Elective Course Requirements (9 credits)</b>				
	CPT 103	Microcomputer Applications	3	
	CPT 121	Basics of Data Communications	3	
	CPT 125	Introduction to Project Management	3	
	CPT 181	SQL Programming	3	
	CPT 182	Computer Science II w/C++	3	
	CPT 185	C# Programming	3	
	CPT 189	Computer Science II w/Java	3	
	CPT 201	Database Design & Administration	3	
	CPT 250	Database website program w/PHP MySQL	3	
	CPT 281	Introduction to Data Structures With C++	3	
	CPT 287	Introduction to Data Structures with Java	3	
	EGR 100	Introduction to Engineering	1	
	IT 170	Security Fundamentals	3	
	MAT 157	College Statistics - General Education	4	
	MAT 240	Calculus and Analytic Geometry III	5	
	MAT 242	Introductory Linear Algebra	3	
	PHY 251	Engineering Physics II	5	
<b>Total Required Hours: 61-63 credits</b>				

## Engineering AS

Subject	Course	Title	Credits
<b>General Education Requirements (46 credits)</b>			
Mathematics	MAT 180	Calculus and Analytic Geometry I	5
	MAT 230	Calculus and Analytic Geometry II	5
	MAT 240	Calculus and Analytic Geometry III	5
	MAT 250	Differential Equations	3
Communication	ENG 101 or ENG 102	English Composition I English Composition II	3
	COM 106 or COM 110	Public Speaking Interpersonal Communication	3
	HIS 101 or HIS 102 or POL 101	U.S. History to 1877 U.S. History Since 1877 American Government	3
Natural Science	CHM 115	General Chemistry I	5
	PHY 250	Engineering Physics I	5
	PHY 251	Engineering Physics II	5
Elective	ECO 110 or ECO 120	Principles of Macroeconomics Microeconomics	3
	Institutional Requirement	COL 101	College Success Seminar
<b>Core Course Requirements (4 credits)</b>			
	EGR 100	Introduction to Engineering	1
	EGR 104	Engineering Design	3
<b>Electives (12 credits)</b>			
	CHM 116	General Chemistry II	5
	CHM 222	Quantitative Analysis	4
	CHM 240	Organic Chemistry I	3
	CHM 241	Organic Chemistry I	3
	CHM 243	Organic Chemistry Lab	2
	CPT 182	Computer Science II w/ C++	2
	CPT-135	Computer Science 1 w/Python Programming Logic for Engineers & Scientists	4
	CPT-165	Scientists	1
	EGR 170	Engineering Mechanics-Statics	3
	EGR 210	Engineering Mechanics-Dynamics	3
	EGR 220	Electrical Circuits	3
	EGR 221	Electrical Circuits Lab (optional)	1
	MAT 242	Introductory Linear Algebra	3
	PHY 125	Introduction to Physical Geology	3
<b>Total Required Hours: 62 credits</b>			

## Information Systems AS

Subject	Course	Title	Credits
<b>General Education Requirements (39-40 credits)</b>			
Mathematics	MAT-158	College Algebra	4
	MAT-157, 175	Math Elective	3-4
Communication	ENG 101, 102 or 115	English Elective	3
	ENG 101, 102 or 115	English Elective	3
	COM 101, 104, 106, 110	Communication Elective	3
Social Science	HIS 101 or	U.S. History to 1877	
	HIS 102 or	U.S. History since 1877	
	HIS 103 or	African American History to 1877	3
	HIS 104 or	African American History from 1877	
	POL 101	American Government	
Natural Science		Any Core 42 Social & Behavioral Science Course	6
	Any BIO, CHM, PHY w/Lab	Any CORE 42 Natural Science Course w/lab	4
	Any BIO, CHM, PHY	Any CORE 42 Natural Science Course	3
Humanities	Any Core42 Humanities & Fine Arts		6
	COL 101	College Success Seminar	1
<b>Core Course Requirements (6 credits)</b>			
	CPT 105	Ethics in Technology	3
	CPT 103	Microcomputer Applications	3
<b>Elective Course Requirements (15 credits)</b>			
	CPT 106	Operating Systems	3
	CPT 125	Introduction to Project Management	3
	CPT 135	Computer Science 1 with Python	4
	CPT 182	Computer Science II w/C++	3
	CPT 201	Database Design & Administration	3
	CPT 225	Advanced Topics in Project Management	3
	CPT 281	Introduction to Data Structures With C++	3
	ACT 110	Financial Accounting I	4
	ACT 130	Managerial Accounting	3
	BTC 170	Spreadsheet Applications - Excel	3
	BUS 101	Introduction to Business	3
	BUS 246	Legal Environment of Business	3
	ENG 125	Business Writing	3
	IT 170	Security Fundamentals	3
	IT 173	Topics in Cyber Security I	3
	IT 271	Topics in Cyber Security II	3
<b>Total Required Hours: 60-61 credits</b>			

## Nursing AS

Subject	Course	Title	Credits
<b>General Education Requirements (31 credits)</b>			
Communication	ENG 101	English Composition I	3
	ENG 102 or Any LIT	English Composition II Any LIT	3
	HIS 101 or HIS 102 or HIS 115 or	US History to 1877 US History Since 1877 US History Since 1945	3
Social Science	POL 101 or POL 102	American Government State & Local Government	
	PSY 101	Intro to Psychology	3
	SOC 101	Intro to Sociology	3
	CHM 101/103 or CHM 106	Intro to Chemistry & Lab Chemistry for Allied Health	4
Natural Science	BIO 250A/250B	Anatomy & Physiology I & Lab	4
	BIO 251A/251B	Anatomy & Physiology II & Lab	4
	BIO 246	Microbiology & Lab	4
<b>Core Course Requirements (41 credits)</b>			
	NUR 103, 113, 123	Fundamentals of Professional Nursing (Lecture, Lab, Clinical)	9
	NUR 104, 114, 124	Professional Nursing Across the Lifespan I (Lecture, Lab, Clinical)	11
	NUR 253, 263, 273	Professional Nursing Across the Lifespan II (Lecture, Lab, Clinical)	10
	NUR 254, 264, 274	Professional Nursing Across the Lifespan III (Lecture, Lab, Clinical)	11
<b>Total Required Hours: 72 credits</b>			

## Nursing AS-LPN Bridge

Subject	Course	Title	Credits
<b>General Education Requirements (31 credits)</b>			
Communication	ENG 101	English Composition I	3
	ENG 102 or Any LIT	English Composition II Any LIT	3
	HIS 101 or HIS 102 or HIS 115 or	US History to 1877 US History Since 1877 US History Since 1945	3
Social Science	POL 101 or POL 102	American Government State & Local Government	
	PSY 101	Intro to Psychology	3
	SOC 101	Intro to Sociology	3
	CHM 101/103 or CHM 106	Intro to Chemistry & Lab Chemistry for Allied Health	4
Natural Science	BIO 250A/250B	Anatomy & Physiology I & Lab	4
	BIO 251A/251B	Anatomy & Physiology II & Lab	4
	BIO 246	Microbiology & Lab	4
<b>Core Course Requirements (41 credits)</b>			
	NUR 102, 112, 122	Transition to Professional Nursing (Lecture, Lab, Clinical)	5
	NUR 106, 116, 126	Advanced Professional Nursing Across Lifespan I (Lecture/lab/clinical)	5
	NUR 255, 265, 275	Advanced Professional Nursing Across Lifespan II (Lecture/lab/clinical)	5
	NUR 256, 266, 276	Advanced Professional Nursing Across Lifespan III (Lecture/lab/clinical)	5
		LPN Credit for Prior Learning	25
<b>Total Required Hours: 76 credits</b>			

## Applied Linguistics CA

Subject	Course	Title	Credits
<b>General Education Requirements (18 credits)</b>			
Communication	ENG 101	English Composition I	3
	ESL 105*/COM 101	Introduction to Communication	3
Humanities	ARB-101, SPN-101, FRN-101, GRM-101, ESL 107*	Arabic, Spanish, French, or German Language & Culture I, Intensive Grammar Review 107	4
	ARB-102, SPN-102, FRN-102, GRM-102, ESL 108 w/ ESL 115D Lab*	Arabic, Spanish, French, or German 102 Language and Culture II, ESL Intermediate Composition 108 with lab	4
	ARB-201, SPN-201, FRN-201, GRM-201, ECI 109, ESL 109 w/ ESL 115E*	Arabic, Spanish, French, or German 201 Language and Culture III, ECI/ESL Research Writing with lab	4
<b>Core Course Requirements (9-11 credits)</b>			
	SPN 190, FRN 190, GRM 190, ESL 199 (NNS)/GLC 190*	Special Topics in Spanish, French, German Culture II, U.S. Community and Culture, Comparative Culture Study	1
	SPN/GRM/FRN 290/ECI 299	Topics in Intermediate Spanish, German, French; ECI Special Topics in Academic English	2-3
	ARB 202, SPN 202, GRM 202, FRN 202, FRN 215, SPN 215, GRM 215, or ESL 106*	Arabic, Spanish, German, French 202; Reading in German, Spanish, French; ESL Advanced Reading	3-4
	ECI 290 Practicum	Academic English Immersion Experience (Choose topic: Translation/Interpretation, Linguistics, TEFL/TESL)	3
<b>Electives - Choose 1 Course From Below (3 credits)</b>			
	ESL 120*	Success in Health Care (Esp. for Translation, healthcare emphasis)	3
	ENG 280	Linguistics, the Science of Words (Esp. for Linguistics/General Translation Emphasis emphasis)	3
	GLS 151	Introduction to Global Studies	3
	EDU 247	Multicultural Education (Esp. for TEFL/TESL or education translation emphasis)	3
	ENG 115	Technical Writing (Esp. for technical translation emphasis)	3
	ENG 125	Business English (Esp. for business English emphasis)	3
	COM 215/GLC 215	Intercultural Communication	3
	ANT-101	General Anthropology	3
	CRJ 140	Introduction to the Criminal Justice System (esp. for translation, criminal justice emphasis)	3
	Note: Any REGIONAL or SPECIALTY World Language & Culture, ECI, or ESL specialty course or other designated by the chair may be substituted for a course in this category		3
<b>Total Required Hours: 30-32 credits</b>			

## Baking & Pastry CA

Subject	Course	Title	Credits
<b>Core Course Requirements (30 credits)</b>			
	CUL 110 A	Intro to Baking for Career Path Lec	1
	CUL 110 B	Intro to Baking for Career Path Lab	4
		Sanitation and Safety for Food	
	CUL 101	Service	1
		Sustainable Food Systems for	
	CUL 107	Culinarians	3
	CUL 111	Breads	3
	CUL 112	Pastries	3
	CUL 113	Chocolates & Sugar	3
	CUL 114	Cake Baking and Decorating	3
	CUL 116	Plated Desserts & Presentation	3
	CUL 130	Hospitality Business and Service	3
	CUL 140	Principles of Nutrition	3

**Total Required Hours: 30 credits**



## Business Administration CA

Subject	Course	Title	Credits	Online	
<b>General Education Requirements (13)</b>					
Mathematics	MAT 098	Beginning Algebra or higher	4	4	
Communication	ENG 101 or ENG 102 or ENG 115 or ENG 125 or COM 101	English Composition I English Composition II Technical Writing Business Writing Introduction to Communication	3	3	
	Social Science	ECO 100 or ECO 110*	3	3	
	Elective	CPT/BTC 103 or CPT 115	3	3	
	<b>Core Course Requirements (6-7 credits)</b>				
	ACT 101 or ACT 110** BUS 101	Applied Accounting Financial Accounting I Introduction to Business	3-4 3	4 3	
	<b>Electives (12 credits)</b>				
	Management Option	BUS 201 BUS 206 BUS 210 BUS 230	Principles of Management Human Resource Management Organizational Behavior Principles of Marketing	3 3 3 3	3 0 0 3
Marketing Option	BUS 232 BUS 236	Advertising/Sales Promotion Consumer Behavior	3 3	0 0	
Accounting Option	ACT 115 ACT 130 ACT 240 BUS 220	Computerized Accounting Managerial Accounting Individual Income Tax Accounting Business Finance	3 3 3 3	0 3 0 3	
Finance Option	ECO 120 ECO 220	Principles of Microeconomics Money and Banking	3 3	3 3	
General Business Option	Choose 3:	Any ACT, BUS, ECO, MAT 175, GEO 120, or BTC 170	9	9	
Choose 1 elective:	Any ACT, BUS, ECO, MAT 175, GEO 120 or BTC 170		3	3	
<b>Total Required Hours: 31-32 credits</b>					

## Computer Applications CA

Subject	Course	Title	Credits
<b>Core Course Requirements (30 credits)</b>			
	BTC/CPT 130	Microcomputer Applications	3
	BTC 105	Proofreading and Editing Business Documents	2
	BTC 130	Customer Service	1
	BTC 136	Business Communication with Stakeholders	3
	BTC 145	Business Technology Tools	3
	BTC 160	Word Processing - Word	2
	BTC 165	Presentations - Powerpoint	2
	BTC 170	Spreadsheet Applications - Excel	3
	BTC 175	Database Applications - Access	2
	BTC 190	Planning and Design Concepts (Microsoft Publisher)	3
	BTC 245	Administrative Procedures	3
	BTC 250	Business Simulations	3
<b>Total Required Hours: 30 credits</b>			

## Computer-Aided Drafting (CAD) CA

Subject	Course	Title	Credits
<b>General Education Requirements (3 credits)</b>			
Elective	CPT/BTC 103 or BTC-170	Microcomputer Applications Spreadsheet Applications - Excel	3
<b>Core Course Requirements (13 credits)</b>			
	CAD-102	Introduction to SolidWorks	3
	CAD-104	Introduction to AutoCAD	3
	CAD-106	Introduction to Autodesk Inventor	3
	CAD-107	Introduction to Revit	3
	CAD-299	CAD Capstone	1
<b>Electives (15 credits)</b>			
	CAD-103	Introduction to Autodesk Civil 3D	3
	CAD-144	Introduction to AutoCAD Architecture	3
	CAD-164	Introduction to AutoCAD Electrical	3
	CAD-202	Advanced SolidWorks – CSWA Exam Prep	3
	CAD-237	Structural Drafting with Revit	3
	CAD-244	Architectural Drafting with AutoCAD	3
	CAD-247	Architectural Drafting with Revit	3
	CAD-254	HVAC Drafting with AutoCAD	3
	CAD-257	Mechanical, Electrical, and Plumbing Drafting with Revit	3
	CAD-274	Geometric Dimensioning and Tolerancing with AutoCAD	3
	CAD-290	CAD Externship	3
	CPM-210	Digital Photo Editing	3
	CPM-220	3D Animation	3
	EGR-104	Engineering Design	3
	GEO-120	Introduction to GIS	3
	GEO-225	Advanced GIS	3
	MFG-101	Principles of Safety	3
	MFG-111	Principles of Quality Practices	3
	MFG-130	Basic Blueprint Reading	3
	MFG-201	Principles of Manufacturing Processes and Production	3
<b>Total Required Hours: 31 credits</b>			

## Culinary CA

Subject	Course	Title	Credits
<b>Core Course Requirements (30 credits)</b>			
	CUL 100A	Culinary Fund. for Career Path Lec.	1
	CUL 100B	Culinary Fund. for Career Path Lab	4
		Sanitation and Safety for Food	
	CUL 101	Service	1
	CUL 106	Egg Cookery & Cold Foods	3
		Sustainable Food Systems for	
	CUL 107	Culinarians	3
	CUL 130	Hospitality Busines and Service	3
	CUL 131	Menu Design & Management	3
	CUL 132	Bar and Beverage Management	3
	CUL 140	Principles of Nutrition	3
	CUL 150	World Cuisine	3
	CUL 190	Advanced Culinary Techniques	3

**Total Required Hours: 30**

## Customer Service CA

Subject	Course	Title	Credits
<b>Core Course Requirements (25 credits)</b>			
	BTC/CPT 103	Microcomputer Applications	3
	BTC 105	Proofreading and Editing Business Documents	2
	BTC 130	Customer Service Excellence	1
	BTC 131	Telephone Communication Skills	1
	BTC 132	Time Management	1
	BTC 135	Your Professional Image	1
	BTC 136	Electronic Communication with Stakeholders	3
	BTC 137	Interpersonal Skills	1
	BTC 160	Word Processing - Word	2
	BTC 165	Presentations - Powerpoint	2
	BTC 170	Spreadsheet Applications - Excel	3
	BTC 175	Database Applications - Access	2
	BTC 245	Administrative Procedures	3
<b>Elective Course Requirements (6 credits)</b>			
	COM 101	Introduction to Communication	3
	BUS 101	Introduction to Business	3

**Total Required Hours: 31 credits**

## Data Management CA

Subject	Course	Title	Credits
<b>General Education Requirements (6 credits)</b>			
Mathematics	MAT 105 (or higher)	Applied Mathematics	3
Communication	ENG 101, 102, 115	English Elective	3
<b>Core Course Requirements (19 credits)</b>			
	CPT 103	Microcomputer Applications	3
	CPT-135	Computer Science 1 w/ Python	4
	CPT 140	Data Visualization w/Tableau	3
	CPT-181	SQL Programming	3
	CPT-200	System Analysis and Design-Capstone Project	3
	CPT-201	Database Design & Administration	3
<b>Elective Course Requirements (6 credits)</b>			
	BTC 145	Business Technology Tools	3
	BTC 170	Spreadsheet Applications - Excel	3
	BTC 175	Database Applications - Access	2
	CPT 105	Ethics in Technology	3
	CPT 106	Operating Systems	3
	CPT 121	Basics of Data Communications	3
	CPT 125	Introduction to Project Management	3
	CPT 198	Computer Science Internship	1-3
	CPT 210	Analytical Tools and Methods	3
	CPT 225	Advanced Topics in Project Management	3
	CPT 235	Understanding Data w/Apache Spark	3
	CPT 250	Database Website Program w/PHP & MySQL	3
	CPT 260	Oracle Programming	3
	HIM 230	Healthcare Data Analysis	3
	IT 140	Programming for System Administrators	3
	IT 170	Security Fundamentals	3
	IT 171	Ethical Hacking	3
	IT 172	Digital Forensics	3
	LGM 215	Introduction to Data Analytics	3
<b>Total Required Hours: 31 credits</b>			

## Desktop Publishing CA

Subject	Course	Title	Credits
<b>Core Course Requirements (27 credits)</b>			
	BTC/CPT 103	Microcomputer Applications	3
	BTC 105	Proofreading & Editing Business Documents	2
	BTC 130	Customer Service	1
	BTC 136	Electronic Communication with Stakeholders	3
	BTC 160	Word Processing - Word	2
	BTC 165	Presentations - Powerpoint	2
	BTC 170	Spreadsheet Applications - Excel	3
	BTC 175	Database Applications - Access	2
	BTC 190	Publishing and Design Projects (Publisher)	3
	CPM 170	Computer Graphics	3
	CPM 210	Digital Photo Editing	3
<b>Elective Course Requirements (3 credits)</b>			
	CPT 125	Project Management	3
<b>Total Required Hours: 30 credits</b>			

## Entrepreneurship CA

Subject	Course	Title	Credits
<b>Core Education Requirements (31 credits)</b>			
	ACT 110	Financial Accounting	4
	ACT 115	Computerized Accounting	3
	BUS 101	Intro to Business	3
	BUS 201	Principles of Management	3
	BUS 208	Entrepreneurship	3
	BUS 230	Principles of Marketing	3
	BUS 232	Advertising and Sales Promotion	3
	BUS 238	Personal Selling	3
	BUS 246	Legal Environment of Business	3
	BUS 270 or	E-Marketing	3
	BUS 272	Social Media Marketing	3
<b>Total Required Hours: 31 credits</b>			

## Entry Level Welding CA

Subject	Course	Title	Credits
<b>General Education Course Requirements (3 credits)</b>			
Mathematics	MAT-105	Applied Math	3
<b>Core Course Requirements (28 credits)</b>			
	WLD 101	Introduction to Welding	3
	WLD 111	Thermal Cutting	2
	WLD 121	Shielded Metal Arc Welding I	4
	MFG-101	Principles of Safety	3
	WLD 131	Gas Metal Arc Welding I	3
	WLD 141	Flux Cored Arc Welding I	3
	WLD 151	Gas Tungsten Arc Welding I	4
	MFG 130	Basic Blue Print Reading	3
	MFG 132	Precision Tools & Measurement	3
<b>Total Required Hours: 31 credits</b>			

## Global Studies CA

Subject	Course	Title	Credits	
<b>General Education Requirements (9-12 credits)</b>				
Mathematics	MAT 098 or higher	Beginning Algebra or higher	3-6	
Communication	ENG 101 or ENG 102 or COM 101 (ESL 105) or COM 106	English Composition I English Composition II Introduction to Communications Public Speaking	3	
	HIS 101	US History to 1877	3	
	HIS 102	US History since 1877		
HIS 103	African-American History to 1877			
HIS 104	African-American History since 1877			
Social Science	POL 101	American Government		
	<b>Core Course Requirements (7-8 credits)</b>			
	GLS 101	Introduction to Global Studies	3	
	GLC 190 (or ESL 199)	Comparative Cultures (or US Culture and Community for NNS)	1	
	Foreign Language Course Numbered 201 or higher or ESL 109 or ECI 109		3-4	
<b>Electives (15 credits)</b>				
Choose at least two courses (6 credit hours) from the following with different prefixes*:	ART 1001	Art Appreciation	6	
	ART 1500	Survey of Western Art History I		
	ART 1505	Survey of Western Art History II		
	Additional Foreign Language or ESL course numbered 190 or above			
	ENG 280	Linguistics		
		Advanced Conversation and Speaking Skills for Non-Native Speakers		
	ESL 105	Speakers		
	HIS 145	Western Civilization: Ancient and Medieval Heritage		
	HIS 146	Western Civilizations: Modern European Heritage		
	LIT 200	World Mythology		
	LIT 230	Contemporary Fiction		
	LIT 271	Literature and Contemporary Cultures		
	LIT 273	World Literature - Enlightenment to 20th Century		
	LIT 275	Holocaust Literature		
	LIT 280	Gender Issues in Literature		
	MUS 111	Music Appreciation		
	MUS 162	English/Italian Diction		
	MUS 163	German/French Diction		
	MUS 231	Music History I		
	MUS 232	Music History II		
	PHL 201	World Religion		
	THE 122	Introduction to Theater		
	THE 123	Introduction to Cinema		
	THE 124	History of Film		
	GLC Courses (other than 190)			
	Choose at least two courses (6 credit hours) from the following with different prefixes*:	ANT 101		General Anthropology
		ANT 102		Introduction to Cultural Anthropology
ANT 151		World Archaeology		
ANT 171		Introduction to Egyptology		
ANT 224		People and Cultures of Africa		
BIO 108		Trends in Science		
BIO 122		Environmental Science		
BUS 255		International Business		
COM/GLC 215		Intercultural Communication		
DC 299		Diversity Portfolio		
ECO 110		Principles of Macroeconomics		
ECO 120		Principles of Microeconomics		
EDU 212		Foundations of Education in a Diverse Society		
EDU 247		Multicultural Education		
GEO 100		Principles of Geography		
GEO 101		Geography: The Eastern World		
GEO 102		Geography: The Western World		
GLS 290		Special Topics in Global Studies		
HIS 103		African-American History to 1877		
HIS 104		African-American History since 1877		



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HIS 204	Non-Western Civilization to 1500
HIS 205	Non-Western Civilization since 1500
HIS 210	Latin American History
POL 201	International Relations
POL 210	Comparative Politics
SOC 101	Introduction to Sociology (honors or non-honors)
SOC 202	Sociology of Racial and Ethnic Groups

Choose at least one course (3 credit hours) from either category above.

**Total Required Hours: 31-35 credits**

3

\* At least two course prefixes must be represented in each group

## Information Technology CA

Subject	Course	Title	Credits
<b>General Education Requirements (13 credits)</b>			
Mathematics	MAT 098 or higher	Beginning Algebra	4
	ENG 101 or	English Composition I	
	ENG 102 or	English Composition II	
Communication	ENG 115 or	Technical Writing	3
	ENG 125 or	Business Writing	
	COM 101 or	Introduction to Communications	
	COM 106 or	Public Speaking	
Social Science	COM 110	Interpersonal Communication	3
	HIS 101 or	US History to 1877	
	HIS 102 or	US History Since 1877	
	HIS 115 or	US History Since 1945	
	HIS 270 or	History of Missouri	
Elective	POL 101 or	American Government	3
	POL 102	State & Local Government	
	BTC/CPT 103	Microcomputer Applications	3
<b>Core Course Requirements (22 credits)</b>			
	IT 100	IT Technical Support	3
	IT 110	Microsoft Technologies I	3
	IT 130	Introduction to Linux	3
	IT 151	CCNA1 (Introduction to Networks)	4
	IT 299	Topics in Information Technology	3
	IT 140	Programming for System Administrators	3
	IT 170	Security Fundamentals	3
<b>Total Required Hours: 31 credits</b>			

## Law Enforcement CA

Subject	Course	Title	Credits
<b>General Education Requirements (12-13 credits)</b>			
Mathematics	MAT 098 or higher	Beginning Algebra	3-4
Communication	ENG 101 or ENG 102 or ENG 125 or	English Composition I English Composition II Business Writing	3
	COM 101	Introduction to Communication	
	HIS 101 or HIS 102 or	US History to 1877 US History Since 1877	
	HIS 115 or HIS 270 or	US History Since 1945 History of Missouri	
Social Science	POL 101 or POL 102	American Government State & Local Government	3
Elective	BTC/CPT 103	Microcomputer Applications	
<b>Core Course Requirements - Choose 3 Courses From Below (9 credits)</b>			
	CRJ 140	Introduction to Criminal Justice	3
	CRJ 170	Criminal Law	3
	CRJ 171	Criminal Evidence	3
	CRJ 175	Criminology	3
	CRJ 201	Criminal Justice: Politics & Policy	3
	CRJ 206	Introduction to Juvenile Justice Service System	3
<b>Law Enforcement Electives - Choose 3 Courses From Below (9 credits)</b>			
	CRJ 103	Addictive Disease Concepts	3
	CRJ 104	Treatment: Alcohol & Drugs	3
	CRJ 110	Investigations	3
	CRJ 202	Correctional Institutions	3
	CRJ 224	Constitutional Law	3
	CRJ 230	Crisis Intervention	3
	CRJ 240	Probation and Parole	3
	CRJ 260	Police Community Relations	3
<b>Other Required Courses (2-7 credits)</b>			
	CRJ 265	Internship I	1-6
	CRJ 298	Capstone	1
<b>Total Required Hours: 32-38 credits</b>			

## Manufacturing Technology CA

Subject	Course	Title	Credits
<b>General Education Requirements (3 credits)</b>			
Mathematics	MAT 105 or higher	Applied Math	3
<b>Core Course Requirements (28 credits)</b>			
	MFG 101	Principles of Safety	3
	MFG 111	Principles of Quality Practices	3
	MFG 201	Principles of Mfg. Processes & Production	3
	MFG 105 or	Employment Strategies	1
	LGM 100	Survey of Industrial Career	3
	MFG 141	Principles of Green Production	3
	MFG 215	Problem-Solving Tactics in Manufacturing	3
	MFG 220	Principles of Maintenance Awareness	3
	MFG 225 or	Supervisory Skills	3
	BUS 206	Human Resources Management	3
	MFG 130	Basic Blue Print Reading	3
	MFG 132	Precision Tools & Measurement	3

**Total Required Hours: 31 credits**

## Medical Assisting CA

Subject	Course	Title	Credits	Online
<b>General Education Requirements (3 credits)</b>				
Mathematics	MAT 096 or placement into MAT 098	Pre-Algebra	4	
<b>Core Course Requirements (31 credits)</b>				
	HIM 110	Medical Terminology	3	
	HIM 140	Anatomy & Physiology for Allied Health	5	
	HIM 141	Pathophysiology	3	
	MDA 115	Pharmacology & Admin. of Meds #	2	
	MDA 116	Pharmacology & Admin. of Meds Clinical #	1	
	MDA 120	Administrative Procedures #	3	
	MDA 121	Medical Specialities #	2	
	MDA 122	Medical Specialities Lab #	1	
	MDA 140	Procedures in a Clinical Setting #	2	
	MDA 141	Procedures in a Clinical Setting Clinical #	1	
	HIM 238	Healthcare Legal & Ethical Issues	3	
	MDA 150	Professional Capstone #	1	
	MDA 151	Clinical Externship #	4	

**Total Required Hours: 35 credits**

# Program Requirement: Students must obtain Basic Life Support (BLS) Certification prior to any MDA coursework.

## Medical Billing & Coding CA

Subject	Course	Title	Credits
<b>General Education Requirements (3 credits)</b>			
Communication	ENG 101	English Composition I*	3
<b>Core Course Requirements (30 credits)</b>			
	HIM 110	Medical Terminology	3
	HIM 120/121	Health Care Data/Lab	3
	HIM 125/126	Health Care Technologies/Lab	3
	HIM 140	Anatomy & Physiology for Allied Health	3
	HIM 141	Pathophysiology	3
	HIM 238	Health Care Legal & Ethical Issues	3
	HIM 220/221	ICD Coding/Lab	3
	HIM 270/271	CPT Coding/Lab	3
	HIM 280	Health Care Billing & Reimbursement Issues	2
	HIM 251	Billing/Coding Clinical **	2
	HIM 252	CCA Review **	2

### Total Required Hours: 33 credits

\* Students are encouraged to take ENG 101 prior to beginning Medical Billing and Coding Coursework. Students may complete ENG 101 during the first semester of coursework but must earn a "C" or better to move on in the program.

\*\* All certificate courses except HIM 251 & HIM 252 are transferable to the HIM AS Degree program. HIM 251 & HIM 252 are specific to the Coding and Billing Certificate of Achievement. Certificate students are eligible to sit for the industry recognized AHIMA Certified Coding Associate (CCA) Credential.

## Multimedia CA

Subject	Course	Title	Credits
<b>General Education Requirements (13 credits)</b>			
Mathematics	MAT 098	Beginning Algebra	4
Communication	ENG 101	English Composition I	3
	HIS 101 or HIS 102 or HIS 115 or HIS 270 or	U.S. History to 1877 U.S. History Since 1877 U.S. History Since 1945 History of Missouri	3
Social Science	POL 101 or POL 102	American Government State and Local Government	
	Elective	CPT 115	Introduction to Data Processing
<b>Core Course Requirements (6 credits)</b>			
	CPT 106	PC Operating Systems	3
	CPM 120	Intro to Multimedia (Adobe Creative Cloud)	3
<b>Additional Core Requirements - Choose 4 Courses From Below (12 credits)</b>			
	CPM 170	Computer Graphics	3
	CPM 190	Backend Web Development (JavaScript/XML/PHP/MySQL)	3
	CPM 210	Digital Photo Editing	3
	CPM 220	3D Modeling and Animation (Sketchup)	3
	CPM 250	Motion Graphics (Adobe After Effects)	3
	CPM 260	WordPress	3
	CPM 270	Digital Video Editing	3
<b>Total Required Hours: 31 credits</b>			

## Personal Trainer: Advanced CA

Subject	Course	Title	Credits
<b>Core Course Requirements (30-31)</b>			
	EXS 100	Introduction to Exercise Science	3
	EXS 110	Introduction to Exercise Physiology	3
	EXS 200	Muscular Fitness Assessment/Program Design	2
	EXS 205	Flexibility and Balance Assessment/Program Design	2
	EXS 210	Cardiorespiratory Fitness Assessment/Program Design	2
	EXS 215	Weight Management and Motivation Assessment/Program Design	2
	EXS 220	Resistance Training and Recovery Techniques	3
	EXS 225	Cardiorespiratory and Flexibility Training	3
	PHE 112	Weight Training I	1
	PHE 211 or PHE 210	CPR/AED or First Aid & Safety	1-2
	PHE 215 or PHE 243	Personal Wellness or Nutrition for Special Populations	2
	PHE 230	Healthful Living	3
	PHE 241 or PHE 242	Principles of Human Nutrition or Introduction to Nutrition	3

**Total Credit Hours 30-31**

## Plumbing & Pipefitters Pre-Training CA

Subject	Course	Title	Credits	Online
<b>General Education Requirements (9 credits)</b>				
Mathematics	MAT-105	Applied Math	3	
	ENG-101	English Comp I	3	
Communication	COM-101	Introduction to Communications	3	
<b>Core Course Requirements (23 credits)</b>				
	MFG-132	Precision Tools & Measurement	3	
	MFG-130	Basic Blueprint Reading	3	
	CPT-115	Introduction to Information Technology	3	
	WLD-121	Shielded Metal Arc Welding I	4	
	MEC-140	Plumbing Code	3	
	MEC-150	Plumbing Systems	4	
	MEC-230	Air Conditioning & Refrigeration	3	

**Total Required Hours: 32 credits**

## Practical Nursing CA

Subject	Course	Title	Credits	
<b>General Education Requirements (13 credits)</b>				
Communication	ENG 101	English Composition I	3	
	PSY 101	Intro to Psychology	3	
Social Science	SOC 151 or SOC 251 or PSY 225	Gerontology Aspect of Aging Psychology of Aging	3	
	Natural Science	BIO 200A/B	Essentials of Anatomy & Physiology for SCC Practical Nursing Students	4
	<b>Core Course Requirements (33 credits)</b>			
	NPN 100	Personal & Vocational Concepts	1	
	NPN 101/111	Fundamentals of Practical Nursing Theory/Lab	5	
	NPN 102/112/122	Practical Nursing Across the Lifespan I Theory/Lab/Clinical	9	
	NPN 151/161/171	Practical Nursing Across the Lifespan II Theory/Lab/Clinical	9	
	NPN 152/162/172	Practical Nursing Across the Lifespan III Theory/Lab/Clinical	9	
<b>Total Required Hours: 46 credits</b>				



## Programming CA

Subject	Course	Title	Credits
<b>General Education Requirements (6 credits)</b>			
Mathematics	MAT 105 (or higher)	Applied Mathematics	3
Communication	ENG 101, 102, 115	English Elective	3
<b>Core Course Requirements (19 credits)</b>			
	CPT 103	Microcomputer Applications	3
	CPT 135	Computer Science 1 w/ Python	4
	CPT 181	SQL Programming	3
	CPT 182, 189	Programming Elective	3
	CPT 200	System Analysis and Design-Capstone Project	3
	CPT 281, 287	Data Structures Elective	3
<b>Elective Course Requirements (6 credits)</b>			
	CPM 160	Frontend Web Development (HTML/CSS/JavaScript)	3
	CPM 190	Backend Web Development (JavaScript/XML/PHP/MySQL)	3
	CPM 240	Web Development Process	3
	CPT 188	Javascript	3
	CPT-104	Update to Animation & Gaming w/Unity	3
	CPT 105	Ethics in Technology	3
	CPT 106	Operating Systems	3
	CPT 121	Basics of Data Communications	3
	CPT-160	Mobile Apps Development	3
	CPT-182	Computer Science II w/C++	3
	CPT-185	C+ Programming	3
	CPT-189	Computer Science II w/Java	3
	CPT 198	Computer Science Internship	1-3
	CPT-250	Database website program w/PHP & MySQL	3
	CPT-260	Oracle Programming	3
	CPT 281	Introduction to Data Structures with C++	3
	CPT-287	Introduction to Data Structures with Java	3
	IT 140	Programming for System Administrators	3
	IT 170	Security Fundamentals	3
	IT 171	Ethical Hacking	3
<b>Total Required Hours: 31 credits</b>			

## Retail Banking CA

Subject	Course	Title	Credits
<b>Core Course Requirements (31 credits)</b>			
	BTC/CPT 103	Microcomputer Applications	3
	BUS 101	Introduction to Business	3
	ECO 220	Money & Banking	3
	ACT 101	Applied Accounting	3
	ACT 105	Personal Accounting and Finance	3
	ACT 110	Financial Accounting I	3
	BTC 170	Spreadsheet Applications-Excel	3
	BUS 105 or	Business Ethics or	
	BUS 246	Legal Environment of Business	3
	BUS 220	Principles of Finance	3
	BTC 130	Customer Service Excellence	1
	BTC 136	Electronic Communication w/Stakeholder	3
<b>Total Required Hours: 31 credits</b>			

## Web Design CA

Subject	Course	Title	Credits
<b>Core Course Requirements (15 credits)</b>			
	CPM-120	Intro to Multimedia (Adobe CC apps)	3
	CPM-160	Frontend Web Development (HTML/CSS/JavaScript)	3
	CPM-210	Digital Photo Editing (Adobe Photoshop)	3
	CPM-260	WordPress	3
	CPM-295	Web Projects/Portfolio (Capstone)	3
<b>Electives (15-16 credits)</b>			
	CPM 190	Backend Web Development (JavaScript/XML/PHP/MySQL)	3
	CPM 230	Social Media Marketing for the Web	3
	CPM 240	Web Design	3
	CPM 250	Visual Effects (Ae)	3
	CPT-188	JavaScript	3
	CPT 160	Mobile Apps Development	3
	CPT-135	Programming in Python	4
	CPT-250	Database Programming	3
<b>Total Required Hours: 30-31 credits</b>			

## Accounting CS

Subject	Course	Title	Credits
<b>Core Course Requirements (10 credits)</b>			
	ACT 101	Applied Accounting**	3
	ACT 110	Financial Accounting	4
	ACT 115	Computerized Accounting	3
<b>Electives - Choose 2 Courses from Disciplines Below: (6 credits)</b>			
	Any ACT		3
	Any BUS		3
	Any ECO		3
<b>Total Required Hours: 16 credits</b>			
<b>Available Online: 94%</b>			

\*\* If the student has an accounting background or experience, ACT 101 can be waived and the student would substitute an additional ACT, BUS or ECO elective class.

## Advanced Welding CS

Subject	Course	Title	Credits
<b>Core Course Requirements (16 credits)</b>			
	WLD 221	Shielded Metal Arc Welding II	4
	WLD 231	Gas Metal Arc Welding II	4
	WLD 241	Flux Cored arc Welding II	4
	WLD 251	Gas Tungsten Arc Welding II	4
<b>Total Required Hours: 16 credits</b>			

## Architectural Drafting CS

Subject	Course	Title	Credits
<b>Core Course Requirements (13 credits)</b>			
	CAD 104	Introduction to AutoCAD	3
	CAD 107	Introduction to Revit	3
	CAD 144	Introduction to AutoCAD Architecture	3
	CAD 244 or	Architectural Drafting with AutoCAD	3
	CAD 247	Architectural Drafting with Revit	
	CAD 299	CAD Capstone	1
<b>Electives (3 credits)</b>			
	CAD 237	Structural Drafting with Revit	3
	CAD 244	Architectural Drafting with AutoCAD	3
	CAD 247	Architectural Drafting with Revit	3
	CAD 254	HVAC Drafting with AutoCAD	3
		Mechanical, electrical, and plumbing drafting	
	CAD 257	with Revit	3
	CPM 220	3D Animation	3
<b>Total Required Hours: 16 credits</b>			

## Banking/Finance CS

Subject	Course	Title	Credits	Online
<b>Core Course Requirements (6 credits)</b>				
	BUS 101	Introduction to Business	3	3
	BUS 220	Principles of Finance	3	3
<b>Electives (9)</b>				
	Any ACT		3	3
	Any BUS		3	3
	Any ECO		3	3
<b>Total Required Hours: 15 credits</b>				
<b>Available Online: 100%</b>				

## Basic Welding CS

Subject	Course	Title	Credits
<b>Core Course Requirements (15 credits)</b>			
	WLD 101	Introduction to Welding	3
	WLD 111	Thermal Cutting	2
	WLD 121	Shielded Metal Arc Welding I	4
	MFG 101	Principles of Safety	3
	MFG 130	Basic Blueprint Reading	3
<b>Total Required Hours: 15 credits</b>			

## Business of Art & Design CS

	Course	Title	Credits	
<b>Core Course Requirements</b>				
<b>(9 credits)</b>				
Option 1: Studio Art	ART 2999	Sophomore Studio Art Seminar	3	
	BUS 101	Introduction to Business	3	
	Any Upper Level Art Studio Course		3	
Choose 1 Option:	ART 2199	Portfolio Design & Professional Practices	3	
	Option 2: Graphic Design	BUS 101	Introduction to Business	3
	ART 1105 or	Digital Art Studio	3	
		Any Upper Level Graphic Design Studio Course	3	
<b>Elective Course Requirements</b>				
<b>(6 credits)</b>				
Choose 2 Courses:	Any Upper Level Art Studio Course (For Art Studio Option Only) or			
	Any Upper Level Graphic Design Studio Course (For Graphic Design Option Only) or			
	ACT 101 or	Applied Accounting		
	ACT 110 or	Financial Accounting	6	
	BUS 105 or	Business Ethics		
	Entrepreneurship/Small Business			
	BUS 208 or	Management		
BUS 270 or	E-Marketing			
	BUS 272	Social Media Marketing		
<b>Total Required Hours: 15 credits</b>				

## Computer Aided Drafting (CAD) CS

Subject	Course	Title	Credits
<b>Core Course Requirements (13 credits)</b>			
	CAD 102	Introduction to SolidWorks	3
	CAD 104	Introduction to AutoCAD	3
	CAD 106	Introduction to Autodesk Inventor	3
	CAD 107	Introduction to Revit	3
	CAD 299	CAD Capstone	1
<b>Elective Course Requirements (3 credits)</b>			
	CAD 103	Introduction to Autodesk Civil 3D	3
	CAD-144	Introduction to AutoCAD Architecture	3
	CAD-164	Introduction to AutoCAD Electrical	3
	CAD-290	CAD Externship	3
	CPM-220	3D Animation	3
<b>Total Required Hours: 16 credits</b>			

## Computer Security CS

Subject	Course	Title	Credits
<b>Core Course Requirements (22 credits)</b>			
	CPT 105	Ethics in Technology	3
	CPT 115	Introduction to Data Processing	3
	CPT 121	Basics of Data Communications	3
	CPT 165	Programming Logic for Engineers & Scientists	3
	CPT 200	Systems Analysis and Design-Capstone Project	3
	CPT 246	Computer Security	3
	IT 151	CCNA1	4
<b>Total Required Hours: 22 credits</b>			

## Creative Writing CS

Subject	Course	Title	Credits
<b>Core Course Requirements (16 credits)</b>			
Creative Writing Foundation	ENG 201	Introduction to Creative Writing	3
Area One: Publication Practices	ENG 202 or	Creative Writing II	3
	ENG 203	Self-Publishing Workshop	
	ENG 200 or	Book Writing Workshop	
Area Two: Writing Workshops (Choose 2 courses)	ENG 206 or	Fiction Writing	6
	ENG 207 or	Poetry Writing	
	ENG 208 or	Writing for Stage and Screen	
	ENG 209 or	Writing Creative Nonfiction	
	ENG 210 or	Writing Science Fiction, Fantasy and Surrealism	
Area Three: Publication Practices	ENG 250 or	Advanced Creative Writing Workshop	3
	ENG 299	Topics in Creative Writing	
	Any LIT	Any Literature Course	
Creative Writing Capstone	ENG 298	Creative Writing Portfolio	1
<b>Total Required Hours: 16 credits</b>			

## Cyber Security CS

Subject	Course	Title	Credits
<b>Core Course Requirements (29 credits)</b>			
	IT 173	Topics in Cyber Security I	3
	IT 172	Digital Forensics	3
	IT 171	Ethical Hacking	3
	IT 270	Network Security	4
	IT 271	Penetration Testing	3
	IT 275	CCISP	3
	IT 130	Intro to Linux	3
	IT 151	CCNA1 (Introduction to Networks)	4
	IT 140	Programming for System Administrators	3
<b>Total Required Hours: 29 credits</b>			



## Data Analytics CS

Subject	Course	Title	Credits
<b>Core Course Requirements (16 credits)</b>			
	CPT-135	Programming in Python	4
	CPT-181	SQL Programming	3
	CPT-140	Data Visualization w/Tableau	3
	CPT-235	Understanding Data w/Apahe Spark	3
	CPT-210	Analytical Tools & Methods	3
<b>Total Required Hours: 16 credits</b>			

## Design Media CS

Subject	Course	Title	Credits
<b>Core Course Requirements (27 credits)</b>			
	ART 1200	2-D Design	3
	ART 1105	Digital Art Studio	3
	ART 2810	Digital Photo I	3
	ART 2110	Page Layout	3
	ART 2120	Typography	3
	ART 2130	Digital Imaging	3
	ART 2140	Web Design	3
	ART 2160	Motion Graphics	3
	ART 2170	Video Production	3
<b>Total Required Hours: 27 credits</b>			

## Desktop Support CS

Subject	Course	Title	Credits
<b>Core Course Requirements (28 credits)</b>			
	IT 100	IT Technical Support	3
	IT 110	Microsoft Technologies I	3
	IT 210	Microsoft Technologies II	3
	IT 130	Intro to Linux	3
	IT 170	Security Fundamentals	3
	IT 140	Programming for System Administrators	3
	IT 160	Virtualization Technologies	3
	IT 151	CCNA1 (Introduction to Networks)	4
	IT 299	Topics in Information Technology	3
<b>Total Required Hours: 28 credits</b>			

## Diversity CS

Subject	Course	Title	Credits
<b>General Education Requirements (0 credits)</b>			
<b>Core Course Requirements (12 credits)</b>			
	Complete SCC Study Abroad Program or Any GLC, GLS, ANT 101, 102, 103, 105, 151, 171, 181, 290, ART 1001, 1500, 1505, 2210, BUS 105, 255, COM 215, CPT 105, CRJ 280, EDU 247, ESL 107, 108, GEO 100, 101, 102, 110, HIS 103, 104, 145, 146, 160, 204, 205, 210, 240, HMS 151, 205, LIT 200, 207, 215, 222, 223, 230, 240, 241, 242, 265, 267, 271, 272, 274, 275, 280, MUS 111, 112, 234, PHE 270, PHL 201, POL 201, 210, 220, 255, PSY 225, 235, 290, SPE 215, SOC 101, 151, 201, 202, 215 224, 241, 242 or THE 122*		12
<b>Secondary Core Course Requirements (1 credit)</b>			
	Study Tour or Portfolio Project Designed by the Diversity Certificate Coordinator		1
<b>Total Required Hours: 13 credits</b>			

## Economics for Managers CS

Subject	Course	Title	Credits
<b>Core Course Requirements (18-19 credits)</b>			
	ACT 101* or	Applied Accounting or	3-4
	ACT 110	Financial Accounting	3
	BUS 101	Intro to Business	3
	ECO 110	Principles of Microeconomics	3
	ECO 120	Principles of Macroeconomics	3
	BUS 208	Entrepreneurship/Small Business Management	3
	ECO 220	Money & Banking	3
	BUS 246	Legal Environment of Business	3
<b>Total Required Hours: 21-22 credits</b>			
* ACT 101 Preferred			

## Electrical/Electronics Systems

Subject	Course	Title	Credits
<b>Core Course Requirements (18 credits)</b>			
	ETC-101	Fundamentals of Electronics	3
	MEC-110	Motors and Controls	3
	ETC-210	Industrial Electricity	3
	ETC-125	Introduction to Digital Systems	3
		Electric Utility Fundamentals-Energy, Regulation, &	3
	ETC-230	Influences	3
	ETC-240	Renewable Energy	3

**Total Required Hours: 18 credits**

## English as a Second Language CS

Subject	Course	Title	Credits
<b>General Education Requirements (9-12 credits)</b>			
Writing	ESL 107 or	Intensive Grammar Review for Non-Native Speakers	3-4
	ESL 108 or	Intermediate Composition for Non-Native Speakers	
	ESL 109	Research Writing for Non-Native Speakers	
Speaking & Listening	ESL 103/COM 100 or	Pronunciation & Communication & Listening for Non-Native Speakers	3-4
	ESL 105 or	Advanced Conversation & Speaking Skills for Non-Native Speakers	
	ESL 104/RDG 104 or	College Reading for Non-Native Speakers Advanced	
Reading (must take at least 3 credit hours) *	ESL 106/RDG 106 or	College Reading for Non-Native Speakers	3-4
	ESL 112 or	Academic Vocabulary Across the Disciplines	
	ESL 113 or	Advanced Vocabulary for Special Purposes (for Non-Native Speakers)	
	ESL 116	ESL Conversation and Current Events	
<b>Advanced Communication &amp; Culture Requirements (6 credits - Choose at least two courses from any combination of the reading, writing, speaking, listening or culture categories.)</b>			
Reading	RDG 111	Reading Across the Disciplines	6
	ESL 120	Success in Health Care Careers for Non-Native Speakers	
Writing	ENG 101	English Composition I	
	ENG 102	English Composition II	
Speaking & Listening	COM 101	Introduction to Communications (Equivalent to ESL 105)	
	Any GLS or GLC Course		
	MUS 111	Music Appreciation	
	MUS 250	Music Audio Production I	
Culture	Music Performance Class		
	ART 1001	Art Appreciation	
	ART 1150	Digital Art Studio	
	Art Studio Course		
Elective (3 credits)	ESL 299	Academic English for Special Purposes	
	PSY 101	Introduction to Psychology	
Elective-Choose One or More	Any INE		3
	Any ESL		
	Any COM		
	Any BTC		
	Any ART		
	Any PSY		
	Any ENG		
	Any LIT		
	Any PHE		
	Any THE		
	Any CPT		
	ANY RDG		
	Any MUS		
	Any AGS		
	Any BIO		
	Any PHY		
	Any HIS		
Any POL			
Any MAT			
Any ACT			
Any Foreign Language (Must have completed ESL-108)			
HMS 100	Introduction to Human Services		
<b>Total Required Hours: 18-21 credits</b>			

\* In special circumstances (e.g. student testing out/course unavailability), ESL 100 or ESL 109 may serve to satisfy the remainder of the reading category requirement if the other course(s) taken in the reading category (such as ESL 116, ESL 112, and/or ESL 113) do not total

## English Fundamentals CS

Subject	Course	Title	Credits
<b>Pre-requisite</b>			
	INE 100	Intensive English: Emerging Skills in Reading, Writing, Speaking and Listening (or Chair approval/testing out)	
<b>General Requirements - 9 Credit Hours</b>			
	INE 101	Intensive English: Reading and Writing	3
	INE 102	Intensive English: Listening and Speaking	3
	ESL 100	SCC Success and Skills for Non-Native Speakers	3
<b>Electives – 3 credits</b>			
	INE 199	Phonics and Fluency	2
	INE 111	Emerging Vocabulary I for Non-Native Speakers	1
	INE 112	Emerging Vocabulary II for Non-Native Speakers	1
	ESL 199	Study of U.S. Culture and Community	1
	Any MUS, ART or PHE (non-intensive English) Course	Any MUS, ART or PHE (non-intensive English) Course	1-3
<b>Intermediate Course/Communication Experience Capstone – 1-4 Credit Hours or 30 Hours of</b>			
	ESL 103 or	Pronunciation, Communication and Listening for Non-Native Speakers	4
	ESL 107 or	Intensive Grammar Review for Non-Native Speakers	4
	INE 190 or	Intensive English Practicum	1-3
	ESL 290 or	Academic English Practicum	1-4
	30 hours of AEL intermediate level courses taken simultaneously with INE courses		
<b>Total Required Hours: 12-16 credits</b>			

## Entrepreneurship CS

Subject	Course	Title	Credits
<b>Core Course Requirements (18-19 credits)</b>			
	ACT 101 or ACT 110	Applied Accounting or Financial Accounting	3-4
	BUS 101	Intro to Business	3
	BUS 201	Principles of Management	3
	BUS 208	Entrepreneurship	3
	BUS 230	Principles of Marketing	3
	BUS 246	Legal Environment of Business	3
<b>Total Required Hours: 18-19 credits</b>			

## Facilities Maintenance Systems

Subject	Course	Title	Credits
<b>Core Course Requirements (18 credits)</b>			
	ETC-101	Fundamentals of Electronics	3
	MEC-112	Hydraulic & Pneumatic	3
	MEC-230	Air Conditioning & Refrigeration	3
	MEC-110	Motors & Controls	3
	MFG-220	Principles of Maintenance Awareness	3
	MEC-120	Heating Systems	3

**Total Required Hours: 18 credits**

## Foundations of Web Development and Design CS

Subject	Course	Title	Credits
<b>Core Course Requirements (12 credits)</b>			
	CPM 160	Frontend Web Development (HTML/CSS/JavaScript)	3
	CPM 260	WordPress	3
	ART 1200	2-D Design	3
	ART 1105	Digital Art Studio	3
<b>Electives - Choose 3 (9 credits)</b>			
	ART 2110	Page Layout	3
	ART 2120	Typography	3
	ART 2130	Digital Imaging and Illustration	3
	CPM 190	Backend Web Development (JavaScript/XML/PHP/MySQL)	3
	CPT-188	JavaScript	3
	CPT 250	Database Programming	3
<b>Total Required Hours: 21 credits</b>			

## GIS Specialist CS

Subject	Course	Title	Credits
<b>Core Course Requirements (16 credits)</b>			
	CPT 135	Computer Science 1 w/ Python	4
	CPT 181	SQL Basics	3
	GEO 100, 103	Geography Elective	3
	GEO 120	Introduction to GIS (Geographic Information Systems)	3
	GEO 225	Advanced GIS	3
<b>Total Required Hours: 16 credits</b>			

## Heating, Ventilation & Air Conditioning (HVAC-R) Systems

Subject	Course	Title	Credits
<b>Core Course Requirements (17 credits)</b>			
	ETC-101	Fundamentals of Electronics	3
	MEC-230	Air Conditioning & Refrigeration	3
	MEC-120	Heating Systems	3
	MEC-110	Motors & Controls	3
	MEC-270	Sheet Metal Duct Fabrication	2
	MEC-280	Commercial Refrigeration Systems	3

**Total Required Hours: 17 credits**

## Hydraulics & Pneumatics Systems

Subject	Course	Title	Credits
<b>Core Course Requirements (15 credits)</b>			
	ETC-101	Fundamentals of Electronics	3
	MEC-112	Hydraulic & Pneumatic	3
	MFG-201	Principles of Manufacturing Processes & Production	3
	MFG-101	Principles of Safety	3
	MEC-110	Motors and Controls	3

**Total Required Hours: 15 credits**

## IT Project Management

Subject	Course	Title	Credits
<b>Core Course Requirements (16 credits)</b>			
	CPT 135	Python Programming	4
	CPT 125	Introduction to Project Management	3
	CPT 181	SQL Programming	3
	CPT 200	System Analysis and Design-Capstone Project	3
	CPT 225	Advanced Topics in Project Management	3
<b>Total Required Hours: 16 credits</b>			

## Management CS

Subject	Course	Title	Credits
<b>Core Course Requirements (6 credits)</b>			
	BUS 101	Introduction to Business	3
	BUS 201	Principles of Management	3
<b>Electives (9 credits)</b>			
	Any ACT		3
	Any BUS		3
	Any ECO		3
<b>Total Required Hours: 15 credits</b>			

## Manufacturing Technology, Certified Production Technician CS

Subject	Course	Title	Credits	online
<b>General Education Requirements (4 credits)</b>				
	MAT 098	Beginning Algebra	4	0
<b>Core Course Requirements (12 credits)</b>				
	MFG 101	Principles of Safety	3	0
	MFG 111	Principles of Quality Practices	3	0
	MFG 201	Principles of Manufacturing Processes and Production	3	0
	MFG 220	Principles of Maintenance Awareness	3	0
<b>Total Required Hours: 16 credits</b>				



# Marketing CS

Subject	Course	Title	Credits
<b>General Education Requirements (0 credits)</b>			
<b>Core Course Requirements (6 credits)</b>			
	BUS 101	Introduction to Business	3
	BUS 230	Principles of Marketing	3
<b>Electives (9 credits)</b>			
	Any ACT		3
	Any BUS		3
	Any ECO		3

## Mechanical Design and Drafting (CAD) CS

Subject	Course	Title	Credits
<b>Core Course Requirements (13 credits)</b>			
	CAD 102	Introduction to SolidWorks	3
	CAD 104	Introduction to AutoCAD	3
	CAD 106	Introduction to Inventor	3
	CAD 202 or	Advanced SolidWorks - CSWA Exam Prep	3
	CAD 274	Geometric Dimensioning and Tolerancing with AutoCAD	
	CAD 299	CAD Capstone	1
<b>Electives (3 credits)</b>			
	CAD 164	Introduction to AutoCAD Electrical	3
	CAD 202	Advanced SolidWorks - CSWA Exam Prep	3
	CAD 274	Geometric Dimensioning and Tolerancing with AutoCAD	3
	CPM 220	3D Animation	3
	EGR 104	Engineering Design	3
	MFG 130	Basic Blueprint Reading	3
	MFG 201	Principles of Manufacturing Processes and Production	3
<b>Total Required Hours: 16 credits</b>			

## Multimedia CS

Subject	Course	Title	Credits
<b>Core Course Requirements (9 credits)</b>			
	CPM 120	Introduction to Multimedia (Adobe Creative Cloud)	3
	CPM 210	Digital Photo Editing (Adobe Photoshop)	3
	CPM 270	Digital Video Editing (Adobe Premiere)	3
<b>Elective Course Requirements-choose 3 (9 credits)</b>			
	CPM 170	Computer Graphics (Adobe Illustrator)	3
	CPM 175	Digital Media Publication (Adobe InDesign)	3
	CPM 180	Digital Audio Editing (Adobe Audition)	3
	CPM 220	3D Modeling and Animation (Sketchup)	3
	CPM 230	Social Media Marketing	3
	CPM 250	Visual Effects (Adobe After Effects)	3
<b>Total Required Hours: 18 credits</b>			

## Musical Theatre CS

Subject	Course	Title	Credits
<b>Core Course Requirements (28 credits)</b>			
	MUS 131	Music Theory I	3
	MUS 132	Music Theory II	3
	MUS 133	Ear Training and Sight Singing I	1
	MUS 134	Ear Training and Sight Singing II	1
	MUS 105* or	SCC Singers I or	
	MUS 115* or	Chamber Choir I or	
	MUS 106* or	SCC Singers II or	
	MUS 116* or	Chamber Choir II or	2
	MUS 135* or	Women's Chorale I or	
	MUS 136* or	Women's Chorale II or	
	MUS 141* or	Show Choir I or	
	MUS 142*	Show Choir II	
	MVV 101	Voice Lessons I	2
	MVV 102	Voice Lessons II	2
	THE 128	Acting I	3
	THE 228	Acting II	3
	THE 144/THE 146/THE 148**	Modern, Jazz, Tap Dance I	4
	THE 229/MUS 229 or	Musical Theatre History to 1943	3
	THE 230/MUS 230	Musical Theatre History Since 1943	
	MUS 259 or	Musical Theatre Workshop I or	1
	MUS 295	Opera Workshop	

\* Choose any combination of two classes for a total of 2 credits

\*\* Must choose two out of three classes for a total of 4 credits

**Total Required Hours: 28 credits**

## Networking CS

Subject	Course	Title	Credits
<b>Core Course Requirements (29 credits)</b>			
	IT 151	CCNA 1 (Introduction to Networks)	4
	IT 152	CCNA 2 (Switching, Routing, Wireless Essentials)	4
	IT 153	CCNA 3 (Enterprise Networking, Security, Automation)	4
	IT 155	Programming for Network Administrators	4
	IT 251	CCNP Enterprise Routing and Services	4
	IT 110	Microsoft Technologies I	3
	IT 140	Programming for System Administrators	3
	IT 130	Introduction to Linux	3
<b>Total Required Hours: 29 credits</b>			

## Personal Trainer CS

Subject	Course	Title	Credits
<b>Core Course Requirements (18-19)</b>			
	EXS 100	Introduction to Exercise Science	3
	EXS 110	Introduction to Exercise Physiology	3
	EXS 200	Muscular Fitness Assessment/Program Design	2
	EXS 205	Flexibility and Balance Assessment/Program Design	2
	EXS 210	Cardiorespiratory Fitness Assessment/Program Design	2
	EXS 215	Weight Management and Motivation Assessment/Program Design	2
	PHE 210 or PHE xxx	First Aid and Safety CPR/AED	1-2
	PHE 241 or PHE 242	Principles of Human Nutrition or Introduction to Nutrition	3
<b>Total Credit Hours 18-19</b>			

## Photo/Imaging/Video CS

Subject	Course	Title	Credits
<b>Core Course Requirements (9 credits)</b>			
	ART 1105	Digital Art Studio	3
	ART 2810	Digital Photo I	3
	ART 2199 or ART 2999	Portfolio Development or Sophomore Seminar	3
<b>Elective Course Requirements (9 credits) Choose 3</b>			
	ART 2830	Digital Photo II	3
	ART 2860	Studio Lighting	3
	ART 2870	Event Photography	3
	ART 2170	Video Production	3
	ART 2130	Digital Imaging & Illustration	3
	ART 1200	2-D Design	3
	ART 1205	Color Theory	3
	ART 2110	Visualization & Layout	3
	ART 2160	Animation & Motion Graphics	3
		Any photography/imaging courses	
		Any art course approved by ART/GDS Chair	
		Any CPM software courses approved by ART/GDS Chair	
<b>Total Required Hours: 18 credits</b>			

## Print Media CS

Subject	Course	Title	Credits
<b>Core Course Requirements (18 credits)</b>			
	ART 1105	Digital Art Studio	3
	ART 1200	2-D Design	3
	ART 2810	Digital Photo I	3
	ART 2120	Typography	3
	ART 2110	Page Layout	3
	ART 2130	Digital Imaging	3
<b>Total Required Hours: 18 credits</b>			

## Programming CS

Subject	Course	Title	Credits
<b>Core Course Requirements (16 credits)</b>			
	CPT-135	Computer Science 1 w/Python	4
	CPT-181	SQL Programming	3
	CPT-200	System Analysis and Design-Capstone Project	3
	CPT-182 or	Computer Science II w/C++	3
	CPT-189	Computer Science II w/Java	3
	CPT-281 or	Intro to Data Structures w/ C++	3
	CPT-287	Intro to Data Structures w/ Java	3
<b>Total Required Hours: 16 credits</b>			

## Robotics & Automation Systems

Subject	Course	Title	Credits
<b>Core Course Requirements (18 credits)</b>			
	ETC-101	Fundamentals of Electronics	3
	MEC-108	Intro to Prog Logic Controller	3
	MEC-110	Motors & Controls	3
	MEC-105	Automated Process Controls	3
	MEC-210	Robotics Theory, Maintenance & Application	3
	MEC-112	Hydraulic & Pneumatic	3
<b>Total Required Hours: 18 credits</b>			

## Software Productivity CS

Subject	Course	Title	Credits
<b>Core Course Requirements (18 credits)</b>			
	BTC 103	Microcomputer Applications	3
	BTC 136	E-Communication With Stakeholders	3
	BTC 160	Word Processing	2
	BTC 165	Presentations Using PowerPoint	2
	BTC 170	Spreadsheet Applications - Excel	3
	BTC 175	Database Applications - Access	2
	BTC 190	Planning & Design Concepts - Publisher	3
<b>Electives - Choose 1 Course From Below: (3 credits)</b>			
	BTC 145	Business Technology Tools	3
	BTC 250	Business Simulations	3
<b>Total Required Hours: 21 credits</b>			

## System Administration CS

Subject	Course	Title	Credits
<b>Core Course Requirements (29 credits)</b>			
	IT 155	Programming for Network Administrators	4
	IT 110	Microsoft Technologies I	3
	IT 210	Microsoft Technologies II	3
	IT 130	Intro to Linux	3
	IT 230	Linux Administration	3
	IT 140	Programming for System Administrators	3
	IT 160	Virtulization Technologies	3
	IT 151	CCNA1 (Introduction to Networks)	4
	IT 299	Topics in Information Technology	3

## Web Development CS

Subject	Course	Title	Credits
<b>Core Course Requirements (12 credits)</b>			
	CPM 160	Frontend Web Development (HTML/CSS/JavaScript)	3
	CPM 190	Backend Web Development (JavaScript/XML/PHP/MySQL)	3
	CPM 260	WordPress	3
	CPM 295	Web Project/Portfolio (capstone)	3
<b>Electives (6-7 credits) Choose 2</b>			
	CPM-240	Web Development (Process)	3
	CPT-188	JavaScript	3
	CPT-135	Programming in Python	4
	CPT-160	Mobile Apps Development	3
	CPT-250	Database Programming	3

**Total Required Hours: 18-19 credits**

## Web Media CS

Subject	Course	Title	Credits
<b>Core Course Requirements (24 credits)</b>			
	ART 1200	2-D Design	3
	ART 1105	Digital Art Studio	3
	ART 2810	Digital Photo I	3
	ART 2110	Page Layout	3
	ART 2120	Typography	3
	ART 2130	Digital Imaging	3
	ART 2140	Web Design	3
	ART 2160	Motion Graphics	3

**Total Required Hours: 24 credits**



# COURSE DESCRIPTIONS

## ACCOUNTING

### ACT 101 Applied Accounting (3)

This course introduces the accounting cycle. Basic concepts covered include double-entry bookkeeping and examination of basic financial reports such as the balance sheet, statement of owner's equity and income statement, emphasis on cash receipts, cash disbursements, accounts receivable, and accounts payable. Some assignments utilize general ledger accounting software. ACT 101 is intended to be the first accounting course for students who have not taken high school accounting or have no accounting experience. It is the "encouraged" prerequisite course for Financial Accounting I (ACT 110).

### ACT 105 Personal Accounting and Finance (3)

Overview of practical business procedures, covering banking procedures (ATM, statements), investment matters, budgeting, insurance, payroll and associated taxes, interest, marketing and other economic issues, and other areas important to economic survival in a highly sophisticated business environment. *Offered in Fall and Spring.*

### ACT 110 Financial Accounting I (4)

**Prerequisites:** ACT 101 or high school accounting strongly recommended.

Introduction to financial accounting, through the theory and logic underlying accounting procedures as well as the measurement and presentation of financial data. Brief review of the basic accounting cycle. Development of fundamental concepts in determination of income and presentation of financial position of business firms. Exposure to partnership accounting as well as coverage of corporation accounting including stocks, stockholder equity transactions, and bonds. Introduction to international accounting as well as statement of cash flows.

### ACT 115 Computerized Accounting I (3)

**Prerequisites:** ACT 101 or ACT 110 or successful completion of high school accounting or department permission.

Exposure to some of the most popular accounting software used in the marketplace by small and medium sized businesses. Computer application packages include Quickbooks, Peachtree, and Microsoft Excel. For students continuing their accounting/ business education or who want more knowledge in computerized accounting applications. *Offered in Fall and Spring.*

### ACT 125 Certified Bookkeeper (3)

**Prerequisites:** ACT 110 or department permission.

Certified Bookkeepers are the elite of their profession, much as CPAs are the best in the accounting field. This bookkeeping class will set students on the path to becoming a Certified Bookkeeper, which can increase their earning potential and enhance their professional status. This class will lead to national certification with the American Institute of Professional Bookkeepers (AIPB). The AIPB Certification is a high professional standard for bookkeepers and is the only national standard.

The ability to gain an edge in any job market makes the bookkeeping certification worth it in every way. From bank reconciliation and payroll to various inventory methods, this class is designed to prepare the student to take the AIPB exam. The AIPB exam can be taken at any Prometric Test Center.

### ACT 130 Managerial Accounting (3)

**Prerequisites:** ACT 110

Introduction to relevant costs for decision making, controlling, contribution approach to decision-making, and absorption costing versus direct costing effect on income. Coverage of segment profitability, budgeting, capital projects, selection and subsequent evaluation, cost volume and allocation involving joint costs decentralization, and performance

measurement and transfer pricing. Emphasis on performance standards, activity-based costing, variance analysis, and responsibility accounting

### ACT 198 Accounting Internship (1-3 hrs)

**Prerequisites:** Department chair or dean permission.

Students placed in a position or in business to gain practical experience and learn specific operational technologies. *Contact department chair for course availability.*

### ACT 210 Intermediate Accounting I (3)

**Prerequisites:** ACT 120 or ACT 130

Accounting theory and practice related to the acquisition, use and disposal of fixed and intangible assets. Recognition and measurement of current assets including cash and inventories are covered. Includes comprehensive study of financial statements. *Offered in Spring only.*

### ACT 240 Individual Income Tax Accounting (3)

**Prerequisites:** ACT 110

Fundamentals of federal income taxation with emphasis on individuals. Topics include determination of income, exclusions, exemptions, personal and business deductions, credits, accounting methods, and capital gains and losses. *Offered in Fall only.*

## AGRICULTURE - AGB

### AGB 110 Agricultural Economics (4)

**Prerequisites:** MAT 097 or MAT 098 or higher with a passing grade or placement into MAT 121 or higher.

Characteristics of our economic system and fundamental principles of macroeconomic concepts with applications to agriculture. Effects on agriculture by money and banking systems, monetary and fiscal policies, government policies and international trade. *Offered in Spring only.*



## AGRICULTURE - AGR

### AGR 100 Agricultural Industries (1)

Introduction to industries and careers that support agriculture. Includes: Resources for major exploration (incorporating regional professional societies, guest seminars, and university transfer information). Emphasis is placed on emerging trends in field practice. *Offered in Fall and Spring.*

### AGR 105 Sustainable Agriculture and the Environment (3)

Examines the practice of agro-ecology: the interface of management, biology and the environment in our effort to produce food, feed, and fiber for a rapidly growing human population. Consequences of historical and current practices and policies will be discussed as well as strengths and weaknesses of alternative practices that seek to employ more knowledge of biology and ecology. *Offered in Fall only.*

### AGR 110 Introductory Forestry (3)

Introduction to field of forestry. In addition to traditional topics of species identification, biology and timber management, this course examines the sociological, environmental, industrial, and political influences, as well as the economic significance on domestic and international management of forest resources. *Offered in Fall only.*

### AGR 120 Precision Agriculture (3)

Emphasis on Global Positioning Systems (GPS), Geographic Information Systems (GIS), remote sensing, data acquisition, mapping, variable rate applications and economics of precision agriculture technologies. Includes a fundamental understanding of precision agriculture; identification and use of appropriate hardware and software tools; experience in developing and interpreting prescription maps; effectively use data in management decisions; and understanding of precision agriculture applications in other countries. *Offered in Spring only.*

### AGR 200 Agribusiness Internship (3)

**Prerequisites:** Student must have completed a minimum of 15 hours of coursework in AGR, AGB, AGS.

This internship requires students to apply their knowledge at a local agricultural business or farm. *Offered in Spring only.*

## AGRICULTURE - AGS

### AGS 170/BIO 170 Plant Science (3)

**Prerequisites:** High School biology or equivalent and High School Chemistry or equivalent with a grade of C or better within the last 5 years.

**Corequisites:** AGS 171/BIO 171

An introduction to plant science and plant physiology spanning the areas of food, ornamental crops and sustainable agriculture. *Offered in Fall and Spring.*

### AGS 171/BIO 171 Plant Science Lab (1)

**Prerequisites:** High School biology or equivalent and High School chemistry or equivalent with a grade of C or better within the last 5 years.

**Corequisites:** AGS 170/BIO 170

Introduction to plant science and plant physiology spanning the areas of food, ornamental crops and sustainable agriculture. Provides opportunities for laboratory application of concepts of plant science using basic research and production practices in plant science. *Offered in Fall and Spring.*

### AGS 180/BIO 180 Animal Science (4)

**Prerequisites:** High School biology or equivalent and High School chemistry or equivalent with a grade of C or better within the last 5 years.

Principles of animal science including importance of animal agriculture, genetics, anatomy, physiology and nutrition. *Offered in Spring only.*

### AGS 210/PHY 210 Soils (3)

**Prerequisites:** CHM 101/103 or CHM 115 with a grade of C or better.

**Corequisites:** AGS 211/PHY 211

Introduction to soil sciences with emphasis placed on physical, biological and chemical properties as related to moisture, temperature, drainage and tillage. Applications including land use, plant growth and environmental problems. Laboratory and computer methods for evaluation of the physical, chemical

and biological properties of soil. *Offered in Spring only.*

### AGS 211/PHY 211 Soils Lab (1)

**Prerequisites:** CHM 101/103 or CHM 115 with a grade of C or better.

**Corequisites:** AGS 210/PHY 210

Laboratory and computer methods for evaluation of the physical, chemical and biological properties of soil. *Offered in Spring only.*

## ANTHROPOLOGY - ANT

### ANT 101 General Anthropology (3)

Introductory survey of anthropology includes subfields of physical/biological, ethnology/cultural, linguistic and archaeological/material. General anthropology is a broad field looking at human behavior cross-culturally, as well as our material productions both past and present, the evolution of our modern human form, and language. Equal time will be spent on each of the four subfields providing an overview of anthropology today.

### ANT 102 Introduction to Cultural Anthropology (3)

Study of diverse human cultures. Introduction of basic concepts and techniques practiced by cultural anthropologists. Topics include language, kinship, gender, economics, politics, ecology, and religion. Discussion of problems resulting when traditional societies confront industrial societies or industrialization.

### ANT 103 Introduction to Archaeology (3)

Introduction to archaeology, with emphasis on scientific methods and procedures, tools, and techniques used by archaeologists to recover information about the past from the material remains. *Offered in Fall only.*

### ANT 105 Introduction to Biological Anthropology (3)

Survey of common topics, including human evolutionary fossil record, modern physical variations such as race, forensics, and primate behavior and evolution. *Contact department chair for course availability.*

**ANT 151 World Archaeology (3)**

Examines archaeological discoveries from prehistoric cultures and ancient civilizations of Africa, Asia, Europe, the Americas, and Oceania. Exploration of human achievements from earliest human ancestors to the present to develop understanding of human condition and foundations of modern world.

**ANT 181 The Archaeology of Mythology (3)**

Investigate what archaeology can add to the study of mythology and of the cultures that created these stories. Topics include both prehistoric and historic time periods from around the world, with a special emphasis on Classical Greece and Rome. *Offered in Fall and Spring.*

**ANT 201 Field School in Archaeology (3-6 hrs)**

Exploration of practical methods of archaeological survey and excavation needed to learn about past civilizations and cultures. Students will participate in a dig or survey project in St. Charles County or at a location such as New Mexico or Madagascar. *Contact department chair for course availability.*

**ANT 224 People and Cultures of Africa (3)**

General anthropological survey of African cultures and civilizations, past and present, throughout the continent. *Contact department chair for course availability.*

**ANT 290 Topics in Anthropology (3)**

Exploration of topic selected by instructor. Topic varies depending on semester and instructor. *Contact department chair for course availability.*

**ARABIC - ARB****ARB 101 Arabic Language and Culture I (4)**

Basic Arabic language skills includes speaking, listening comprehension, reading and writing, with emphasis on effective linguistic functioning in real situations. Explores cultures of Arabic-speaking countries.

**ARB 102 Arabic Language and Culture II (4)**

**Prerequisites:** ARB 101

Continuation of ARB 101. Explores cultures of Arabic-speaking countries.

**ARB 190 Topics in Arabic Language and Culture (1-3 hrs)**

**Prerequisites:** Dependent on topic

Exploration of special topics and/or activities in Arabic language and culture. *Contact department chair for course availability.*

**ARB 201 Arabic Language and Culture III (4)**

**Prerequisites:** ARB 102 or equivalent

Follow-up to ARB 102. Expanded opportunities for listening to, speaking, reading, and writing Modern Standard Arabic. Continued exploration of culture, with an emphasis on Arab intellectuals, poets and writers. Emphasis remains on linguistic functioning in real situations. *Contact department chair for course availability.*

**ARB 202 Arabic Language and Culture IV (4)**

**Prerequisites:** ARB 201 or equivalent

Follow-up to ARB 201. Precise and coherent use of Modern Standard Arabic language through development of the speaking, reading, writing and listening skills; more focus on syntax, morphology, and grammar. Students will take part in meaningful, functional communication that might be encountered in real life complex situations. Varied reading and writing activities representing cultural topics will be included. Media Arabic will be introduced. *Contact department chair for course availability.*

**ART - ART****ART 1001 Art Appreciation (3)**

An introduction to the visual arts that provides an opportunity for students to acquire knowledge, cognition, and perception of the universal qualities of humankind's artistic heritage by studying the elements and principles of art and design and the media, techniques, and processes in art. The course may engage students in critical and creative thinking about various visual and popular art topics from social, historical, and cultural contexts through theoretical or practical approaches. This course will not fulfill the requirements for a major in art.

**ART 1105 Digital Art Studio (3)**

Focus on introducing students to digital art forms, software programs, and the interrelationship of art and technology. Students will gain experience using digital tools to create fine art & graphic communications pieces weaving technical skills into creative vision.

**ART 1200 2-D Design (3)**

Introduction to the basic study, use, and control of the art elements and principles of two-dimensional design that are fundamental to all visual arts through assigned problems using readings, discussion and exercises employing a variety of materials and tools.

**ART 1205 Color Theory (3)**

**Prerequisites:** ART 1200 with a grade of C or better

Continue to build mastery in both use and understanding of design elements and principles with specific emphasis on the interaction and application of color in design and exploration of various color theories through a series of exercises.

**ART 1300 3-D Design (3)**

Introduction to the basic study, use, and control of the art elements and principles that govern three-dimensional design and structure through assigned problems using readings, discussion and exercises designed to employ a variety of concepts, materials and tools specific to the construction of three-dimensional art making. *Offered in Fall and Spring.*

**ART 1400 Drawing I (3)**

Introduction to drawing through variety of methods, both traditional and contemporary. Emphasis placed on analysis of space and form as well as familiarization with and control of drawing material. Introduction to line, perspective, shading, and texture.

**ART 1405 Drawing II (3)**

**Prerequisites:** ART 1400 with a grade of C or better.

This course is a continuation of ART-1400 with a reassessment of various techniques and drawing exercises. This includes an emphasis on color and the use of a variety of media, subject matter, and the development of individual expression.

### ART 1500 Survey of Western Art History I: Prehistory to End of the Middle Ages (3)

Survey art history course focusing on historically significant cultures and forms of art and architecture in Western Civilization. Exploration of the development of human achievements from Prehistory to the end of the Middle Ages.

### ART 1505 Survey of Western Art History II: Renaissance to the Twentieth Century (3)

**Prerequisites:** ART 1001 or ART 1500 with a grade of C or better.

Survey art history course focusing on historically significant cultures and forms of art and architecture in Western Civilization. Exploration of the development of human achievements from the Renaissance to the 20th century. *Offered in Spring only.*

### ART 2100 History of Graphic Design (3)

This is a survey course on the history of Graphic Design. This course will cover the history and development of visual communication. It will begin with the development of language and will trace the evolution of word and image throughout history using the works of designers and illustrators that have influenced the continuing development of the discipline. There will be an emphasis on the influence of technology, culture, major artistic movements, and socio-political factors on the evolution of graphic design.

### ART 2110 Visualization & Layout (3)

**Prerequisites:** ART 1105 with a grade of C or better or instructor permission.

This is a studio format course providing students an introduction to the digital tools and concepts of making visually based work across multiple platforms and working methods. The course focuses on composition and layout, investigating a range of design environments ranging from print, multi-page publishing, as well as interactive application formats. Basic graphic design concepts as well as design vocabulary are a fundamental part of the course content. Typography, the use of space, and traditional industry standards and practices will be included, as well as pre-press guidelines for both print and digital media.

### ART 2120 Typography (3)

**Prerequisites:** ART 1105 with a grade of C or better or instructor permission.

Focus of course will stress the refined use of typography as a design and communication tool. Students will study the history and classifications of letter-forms and use it in the creation of various typographical designs and presentations. Typical projects may range from letter and alphabet design to the use of typographical forms as the feature design elements in graphic designs or page layouts. *Offered in Fall and Spring.*

### ART 2130 Digital Imaging & Illustration (3)

**Prerequisites:** ART 1105 with a grade of C or better or instructor permission.

Focus on the creation and digital manipulation of artwork & images increasing familiarity with basic tools used the design. Projects focus on artwork and logo creation, image correction and adjustment, combining imagery, color correction, etc. Discussion and demonstration of traditional printing technology. Review of legal issues related to digital imagery and freelance design included. *Offered in Fall and Spring.*

### ART 2140 Web Design (3)

**Prerequisites:** ART 2130 with a grade of C or better or instructor permission.

Emphasis on web page design & development. Topics include the conceptualization and construction of a variety of web sites, including individual pages, HTML, email, animation, etc. Implementation of all aspects of graphic design will play a part in the overall class. This is a continuation of student design studies, applying graphic concepts to the interactive Web. *Offered in Fall and Spring.*

### ART 2160 Animation & Motion Graphics (3)

**Prerequisites:** ART 1105 and ART 2130 with a grade of C or better or instructor permission

In this studio format course, students will learn the basics of motion graphics and animation through completion of project-oriented experiences that may include movie/tv show titles, kinetic typography, commercials, infographics and animated shorts.

### ART 2170 Video Production (3)

**Prerequisites:** ART 2810 with a grade of C or better or ART 1105 and ART 2800 with grades of C or better or instructor permission.

Course will focus on video art as an expressive media. Students will learn the basics of video production/post production through completion of finished projects that may include music videos, interview/maker videos, commercials, how to videos, comedy shorts and short form stories. Cost of course may exceed \$200. *Offered in Fall only.*

### ART 2199 Portfolio Design and Professional Practices (3)

**Prerequisites:** Instructor permission

The focus of this course will emphasize the opportunities and procedures in various fields of graphic design, illustration, and related creative industries. Students will be guided in the curation and preparation of a portfolio of their work, a resume, related documents, and will learn practical interviewing techniques. The intent will be to prepare students to enter the creative fields or related opportunities with a confident and professional attitude. The course will culminate in a Portfolio Review determining successful degree completion by the student.

### ART 2210 Modern and Contemporary Art History (3)

**Prerequisites:** ART 1001 or ART 1500 or ART 1505 with a grade of C or better.

Art History lecture course focusing on significant artistic developments and forms of art and architecture through exploration of the development of human achievements in the modern and contemporary era. *Contact department chair for course availability.*

### ART 2220 History of Photography (3)

Exploration of photography, its historical development, an examination of it as an art medium, and its influence on the development of modern art and contemporary culture. *Contact department chair for course availability.*

### ART 2300 Drawing III (3)

**Prerequisites:** ART 1405 with a grade of C or better.

Continuation of Drawing II. Emphasis on using a variety of drawing materials and subject matter. Students will determine the use of the appropriate media to develop their own content and individual expression.

**ART 2310 Figure Drawing I (3)**

Introduction to human-figure drawing through traditional and contemporary methods. Emphasis on analysis of space and form as well as human anatomy. *Offered in Spring only.*

**ART 2320 Figure Drawing II (3)**

**Prerequisites:** ART 2310 with a grade of C or better.

Continuation of Figure Drawing I with introduction of color theory and wet-drawing media. *Offered in Spring only.*

**ART 2330 Figure Drawing III (3)**

**Prerequisites:** ART 2320 with a grade of C or better.

Studio art course that expands upon the core principles explored in Figure Drawing I and II along with broader experimentation in use of materials and deeper personal expression. *Offered in Spring only.*

**ART 2400 Painting I (3)**

**Prerequisites:** ART 1400 with a grade of C or better.

Studio course where students work with oil paints to realistically represent subject matter in the tradition of Western Art and participate in critique sessions. Paint density, texture and chemistry will be discussed. The formal aspects of drawing will be applied. Painting demonstrations are designed to help each student understand the objective of the assignments. Students will prepare their own painting surfaces in order to learn and appreciate the craft involved with the entire process of creating a finished work of art. *Offered in Fall and Spring.*

**ART 2401 Painting for Non-Art Majors (3)**

An introduction to the fundamental concepts of painting in a studio environment. Students will become familiar with the materials and techniques used in painting. This course will not fulfill the requirements for a major in art. *Offered in Fall and Spring.*

**ART 2410 Painting II (3)**

**Prerequisites:** ART 2400 with a grade of C or better.

Studio course where students work with paint to represent subject matter, broaden techniques learned in ART 2410, develop personal expression and participate in critique

sessions. Paint density, texture and chemistry will be discussed. Painting demonstrations are designed to help each student understand the objective of the assignments. Students will prepare their own painting surfaces in order to learn and appreciate the craft involved with the entire process of creating a finished work of art. *Offered in Fall and Spring.*

**ART 2420 Painting III (3)**

**Prerequisites:** ART 2410 with a grade of C or better.

Continuation of Painting II. Special projects in both traditional and nontraditional materials and subject matter. *Offered in Fall and Spring.*

**ART 2430 Topics: Advanced Painting (3)**

**Prerequisites:** ART 2420

Advanced course on contract individual study basis to gain greater expertise in painting. *Offered in Fall and Spring.*

**ART 2500 Ceramics I (3)**

**Prerequisites:** ART 1300 with a grade of C or better.

A study of the basic principles of ceramics and ceramic art making with emphasis on the hand-building process and introduction to wheel throwing. Studio operations such as clay mixing, clay recycling, glaze mixing and kiln loading will also be covered.

**ART 2501 Ceramics for Non-Art Majors (3)**

An introduction to the fundamental concepts of ceramics in a studio environment. Students will become familiar with the materials and techniques used in ceramics. This course will not fulfill the requirements for a major in art.

**ART 2510 Ceramics II (3)**

**Prerequisites:** ART 2500 with a grade of C or better.

Continuation of Ceramics I with more emphasis on wheel throwing skills, experimentation with glazes and creative design and expression. How to run a ceramics facility is covered through course participation in studio operations.

**ART 2520 Topics: Advanced Ceramics (3)**

**Prerequisites:** ART 2510 with a grade of C or better.

Advanced course on contract individual study basis to gain greater expertise in ceramics.

**ART 2550 Jewelry I (3)**

**Prerequisites:** ART 1300 with a grade of C or better.

Introduction to materials and processes of jewelry making. Techniques include cutting, piercing, filing, joining, casting, forging, soldering, and cold connections. Stress on intricacies of working with different metals and experimental media and design concepts along with personal expression. *Offered in Fall and Spring.*

**ART 2551 Jewelry for Non-Art Majors (3)**

An introduction to the basic essentials of making jewelry in an art studio environment. Students will become familiar with the materials and techniques used in making jewelry. This course will not fulfill the requirements for a major in art. *Offered in Fall and Spring.*

**ART 2560 Jewelry II (3)**

**Prerequisites:** ART 2550 with a grade of C or better.

Further exploration and refinement of metal fabrication processes as introduced in Jewelry I. Techniques may include soldering, jewelry scale casting, surface embellishment techniques, enameling techniques, hydraulic die forming and mechanism design to create jewelry and small scale objects. *Offered in Fall and Spring.*

**ART 2570 Topics: Advanced Jewelry (3)**

**Prerequisites:** ART 2560 with a grade of C or better.

Advanced course on contract individual study basis to gain greater expertise in jewelry making. *Offered in Fall and Spring.*

**ART 2600 Sculpture I (3)**

**Prerequisites:** ART 1300 with a grade of C or better.

Introduction to sculpture materials, skills, history, and concepts. Explores methods in manipulation of traditional and experimental sculptural media, including additive and subtractive techniques. Involves studio work, research, lecture, and discussion. Emphasis as much on learning technique as understanding concepts and personal expression. *Offered in Fall and Spring.*

### ART 2601 Sculpture for Non-Art Majors (3)

An introduction to the fundamental concepts of sculpture in a studio environment. Students will become familiar with the materials and techniques used in sculpture. This course will not fulfill the requirements for a major in art. *Offered in Fall and Spring.*

### ART 2610 Sculpture II (3)

**Prerequisites:** ART 2600 with a grade of C or better.

Emphasis on artisanship, exploration, and research to gain more sophisticated and self-motivated personal direction. Introduces skills in welding and metal fabrication as well as individual media choices. May include some metal casting. *Offered in Fall and Spring.*

### ART 2620 Figure Sculpture (Figurative Clay Sculpture I) (3)

**Prerequisites:** ART 2600 with a grade of C or better.

Introduction to basics of figure sculpture using the human figure as reference for subject matter for modeling in clay over an armature. Some other ways of constructing the figure may also be investigated. *Offered in Fall and Spring.*

### ART 2630 Topics: Advanced Sculpture (3)

**Prerequisites:** ART 2610 or ART 2620 with a grade of C or better

Advanced course on contract individual study basis to gain greater expertise in sculpture. *Offered in Fall and Spring.*

### ART 2700 Intro to Printmaking (3)

**Prerequisites:** ART 1400 or ART 1200 with a grade of C or better

Introduction to basic traditional printmaking processes. It is assumed upon entrance that students have no prior printmaking knowledge. Processes covered include: Woodcut (black and white woodcut, color woodcut), Intaglio (etching, aquatint, drypoint), and Monotype. *Offered in Fall and Spring.*

### ART 2701 Printmaking for Non-Art Majors (3)

An introduction to the fundamental concepts of printmaking in a studio environment. Students will become familiar with the materials and techniques used in printmaking. This course will not fulfill the requirements for a major in art. *Offered in Fall and Spring.*

### ART 2710 Relief Printmaking (3)

**Prerequisites:** ART 2700 with a grade of C or better.

This course is designed to build upon basic relief printing processes covered in Intro to Printmaking. Processes covered include: Reductive woodcut, Multiple Block Woodcut, Wood Engraving, Monotype, and Relief Printed Collagraph. *Offered in Fall and Spring.*

### ART 2720 Intaglio Printmaking (3)

**Prerequisites:** ART 2700 with a grade of C or better.

This course is designed to build upon basic intaglio processes covered in Intro to Printmaking. Processes covered include: Color Intaglio (multiple plate, a la poupee), Engraving, Soft Ground, Sugar Lift, Spit Bite, and Collagraph. *Offered in Fall and Spring.*

### ART 2730 Topics: Advanced Printmaking (3)

**Prerequisites:** ART 2710 or ART 2720 with a grade of C or better.

Advanced course on contract individual study basis to gain greater expertise in printmaking. *Offered in Fall and Spring.*

### ART 2750 Fibers (3)

**Prerequisites:** ART 1200 or ART 1300 with a grade of C or better.

In-depth exploration of the processes of creating art textiles. Draws upon contemporary and historical sources and personal imagery for expression using the fiber medium. Techniques include direct application of dyes and pigments with various resist methods, screen print processes, creating a dimensional fiber form, and exploring pattern structures. Students create within directed problems and develop abilities to verbalize ideas through conversations and critiques. *Offered in Fall only.*

### ART 2751 Fibers for Non-Art Majors (3)

An introduction to the fundamental concepts of Fiber and Textile based art in a studio environment. Students will become familiar with the materials and techniques used in Fibers. This course will not fulfill the requirements for a major in art. *Offered in Fall only.*

### ART 2795 Special Problems in Studio Art: Fibers (3)

**Prerequisites:** Instructor permission

Advanced study in studio art discipline beyond courses appearing in this catalog. Projects predetermined through interview with instructor, completed during studio times offered in discipline. *Offered in Fall only.*

### ART 2810 Digital Photography I (3)

This is a studio format course focusing on the basic processes and procedures of creating imagery through the usage of cameras and new technology, as well as other devices. The course will explore the digital toolbox as a means for photographic input, output, and basic image manipulation. There will be a strong emphasis on ideas, concepts, and creativity as relevant to new technology, as a vehicle for expression.

Fundamental computer skills are required. The course utilizes the Apple Mac OS platform. Students will be responsible for their own DSLR camera with RAW capabilities as well as other supplies. Coursework revolves around a non-destructive, archival DNG workflow, utilizing RAW capture. Your phone camera, although handy, is alone not enough to understand the concepts and complete the assignments at hand.

The cost of course supplies may exceed \$200 not including your camera. This is not a software seminar or an Adobe Photoshop course. This course is about bringing your ideas to life through the digital photographic toolbox. Most importantly... this is a course in seeing.

### ART 2830 Digital Photography II (3)

**Prerequisites:** ART 2810 with a grade of C or better.

Intermediate exploration of the aesthetics and techniques of digital photography including a further investigation of the constructed image, color management, asset management and output methods. Students will produce one or more portfolios of digital images. Students will be responsible for their own 8-10 megapixel adjustable digital camera minimum as well as other supplies. DSLR cameras with RAW capabilities are preferred. Cost of course supplies may exceed \$200.

### ART 2840 Photography III (3)

**Prerequisites:** ART 2820 or ART 2830 with a grade of C or better.

This course is a continuation in understanding photography and images in terms of how they function as art work with emphasis on technical consistency and sophistication in expression of ideas.

### ART 2850 Topics: Advanced Photography (3)

**Prerequisites:** ART 2840

Advanced course on contract individual study basis to gain greater expertise in photography. Offered in Fall and Spring.

### ART 2855 Special Topics in Photography (3)

**Prerequisites:** ART 2820 or ART 2830 or instructor permission.

Variable content covering in-depth advanced topics in technique and subject matter not covered in regular curriculum. Topics vary and may include subjects such as portrait photography and lighting, location photography: landscape and architecture, non-silver photographic processes, working with color positives, etc. Class may be repeated for credit up to three times if different topic is studied. Offered in Fall and Spring.

### ART 2860 Studio Lighting (3)

**Prerequisites:** ART 2810 with a grade of C or better.

Provides hands-on instruction in the photographic studio in the manipulation and utilization of light for the production of professional quality images. Students are taught to accurately control lighting for portraits, objects, products, etc. to create strong portfolio images. Cost of course supplies may exceed \$200. Offered in Fall only.

### ART 2870 Event Photography (3)

**Prerequisites:** ART 2810 with a grade of C or better.

Students learn to use their technical expertise, creativity and composition skills to produce and preserve images that visually tell a story or record an event. Photographic techniques and location considerations are discussed as well as the business practices essential to be successful in the profession. Cost of course supplies may exceed \$200. Contact department chair for course availability.

### ART 2900 Illustration and Sequential Art I (3)

**Prerequisites:** ART 1400 with a grade of C or better.

Explore techniques, materials and methods of illustration and sequential art. Projects emphasize individual creativity and concept but also emphasize best practices for working with clients. Offered in Fall and Spring.

### ART 2910 Illustration and Sequential Art II (3)

**Prerequisites:** ART 2900 with a grade of C or better.

Continuation of Illustration I with an advanced approach. Emphasis on subject interpretation and individual avenue of study using variety of art mediums. Offered in Fall and Spring.

### ART 2930 Gallery Management Internship (3)

**Prerequisites:** Instructor permission

Basic processes and procedures of curating a fine art exhibition and managing exhibition space. Explore SCC's community art venue from a behind-the-scenes perspective while developing an understanding of the responsibilities of managing, funding, and maintaining exhibition space. Participation in installation and planning of SCC Gallery exhibitions. Field trips to Art Galleries & Art Museums.

### ART 2950 Visual Arts Studio Internship (3)

**Prerequisites:** Instructor permission

On-the-job experience in visual arts. Students may apply for an internship with artists or art-related businesses to enhance career readiness. Visual arts studio internships must be approved and sponsored by a faculty advisor.

### ART 2970 Art and Architecture Field Studies (1-3)

**Prerequisites:** One of the following: ART 1001, 1200, 1300, 1400, 1500, 2750, 2401, 2501, 2551, 2601, 2701, 2751, 2800, 2930 or instructor permission.

Field course covering art, architecture, and history of a region of the world involving supervised on-site field studies and coursework outlined in an individual learning agreement. Includes lectures, directed readings, writing, drawing, photography, and other creative projects as well as visits to important sites and

artifacts. Students must also register for and participate in approved academic study tour, study abroad, or field experience. Contact department chair for course availability.

### ART 2995 Special problems in Studio Art (3)

**Prerequisites:** Instructor permission

Advanced study in studio art discipline beyond courses appearing in this catalog. Projects predetermined through interview with instructor, completed during studio times offered in discipline.

### ART 2999 Sophomore Studio Art Seminar (3)

**Prerequisites:** Upon completion of 31 to 32 credits of the requirements towards an AFA degree (3rd semester).

A course for art majors planning to transfer to a four-year institution for a Bachelor of Fine Arts degree or a BA degree in Studio Art. This course will guide students in how to photograph their artwork and prepare their visual art portfolio for review by the transfer institutions and exhibition spaces. Opportunities and procedures in the various fields of visual art will be discussed. Other necessary skills such as artist resume writing and artist statement writing will also be undertaken. Offered in Fall only.

## BIOLOGY - BIO

### BIO 095 Pre-A&P Foundations in Science (1)

This course provides the foundations of scientific terminology and concepts useful for success in Anatomy & Physiology I (acceptable prerequisite for BIO 250A/250B). Topics include: scientific method, chemistry of life, cell biology, genetics, energetics, overview of human systems. This course is graded on a Pass/Fail basis. Offered online only. This course does not count toward graduation.

### BIO 105 Essentials of Biology (3)

**Corequisites:** BIO 106 (recommended but not required)

Examines fundamental principles of biology. Includes organization of living things, scientific method, cell and molecular biology, genetics, ecology, evolution, and relationship between biology and society. Suitable for non-science majors.

**BIO 106 Essentials of Biology Laboratory (1)****Corequisites:** BIO 105

Emphasis on use of methodologies typical of biological studies. Complements topics covered in BIO 105. Suitable for non-science majors.

**BIO 108 Trends in Science (3)**

Provides undergraduate non-majors an understanding of contemporary scientific issues, concepts and trends in biology. Emphasis is on health and disease, genetic engineering, evolutionary aspect of organisms, introduction to ecology and the impact of humans on ecosystems and environment.

**BIO 110 Human Biology (3)**

Survey of human body structure and function for non-science major. Study of all organ systems of the body along with current topics in human biology.

**BIO 113 Human Biology Laboratory (1)****Corequisites:** BIO 110

Use of models, specimens, and investigative activities intended to enhance study of human organism.

**BIO 115 Fundamentals of Health & Disease (3)**

In this course, undergraduate non-majors explore human health and disease by combining biological principles and scientific methodology. Content emphasizes the interdisciplinary nature of science and how various factors, including socio-economic, behaviors, historic factors, genetics, and infectious organisms may influence health. An overview of preventive practices and available treatments will be presented by reviewing major scientific studies.

**BIO 122 Environmental Sciences (3)**

Study of biological and physical characteristics and principles of nature. Deals with diverse topics such as ecology, endangered species, pollution, meteorology, earth studies, populations, etc. Occasional guest speakers or field trips included. (For non-science majors) *Offered in Fall and Spring.*

**BIO 123 General Zoology (3)**

An introduction to the fundamental concepts of biology by way of a survey of the major animal

groups, emphasizing structure, function, life cycles, evolution, and ecology.

**BIO 124 General Zoology Lab (1)****Corequisites:** Take BIO-123 concurrently or previously with a passing grade.

This is a lab course intended to supplement the General Zoology lecture course. Students will be introduced to fundamental concepts of biology. Students will compare the structure, function, and life cycles of major animals groups by the way of a hands-on examination of preserved or live specimens, models, and microscope slides of representative species. This course is recommended to be taken at the same time as BIO-123 but may be taken prior to this lab course.

**BIO 130 Biology of Reproduction (3)**

Provides undergraduate non-majors with an understanding of animal reproduction with an emphasis on humans. Students will explore the evolution of sexual reproduction, basic structure and function of the reproductive system, developmental biology, diseases and infertility, and the current topics in human reproduction.

**BIO 150 General Biology: From Cells to Organisms (5)****Corequisites:** Take CHM 115 concurrently or have taken it or its equivalent previously in the last five years.

Provides undergraduate science majors with an understanding and appreciation of the major concepts, processes and theories of biology at the molecular to organismal level. Topics such as chemistry of life, cell structure, metabolism, genetics, and physiological processes and are covered in both lecture and lab format. Students will learn the process of science in a course-based research project and will explore biological issues of public concern. *Offered in Fall and Spring.*

**BIO 151 General Biology: From Organisms to the Environment (5)****Corequisites:** Take CHM 115 concurrently or have taken it or its equivalent previously in the last five years.

Provides undergraduate science majors with an understanding and appreciation of the major concepts, processes and theories of biology at the organismal and ecological level.

Topics such as phylogenetics and evolution, population genetics, organismal diversity and ecology are covered in both lecture and lab format. Students will practice the process of science in a course-based research project and will explore biological issues of public concern. *Offered in Fall and Spring.*

**BIO 170/AGS 170 Plant Science (3)****Prerequisites:** High School biology or equivalent and High School chemistry or equivalent with a grade of C or better within the last 5 years.**Corequisites:** BIO 171/AGS 171

An introduction to plant science and plant physiology spanning the areas of food, ornamental crops and sustainable agriculture.

**BIO 171/AGS 171 Plant Science Lab (1)****Prerequisites:** High School biology or equivalent and High School chemistry or equivalent with a grade of C or better within the last 5 years.**Corequisites:** AGS 170 or BIO 170

Introduction to plant science and plant physiology spanning the areas of food, ornamental crops and sustainable agriculture. Provides opportunities for laboratory application of concepts of plant science using basic research and production practices in plant science.

**BIO 180/AGS 180 Animal Science (4)****Prerequisites:** High School biology or equivalent and High School chemistry or equivalent with a grade of C or better within the last 5 years.

Principles of animal science including importance of animal agriculture, genetics, anatomy, physiology and nutrition. *Offered in Spring only.*

**BIO 200B Essentials of Anatomy & Physiology Lab for SCC Practical Nursing Students (0)****Prerequisites:** Please see Allied Health advisor to enroll.**Corequisites:** BIO 200A

Pre-requisite for the SCC Practical Nursing Program. This course covers basic anatomy & physiology of the human body systems. Focus

is placed on information which will serve as building blocks for providing client care within the PN scope of practice.

**BIO 200A** Essentials of Anatomy & Physiology for SCC Practical Nursing Students (4)

**Prerequisites:** Please see Allied Health advisor to enroll.

**Corequisites:** BIO 200B

Pre-requisite for the SCC Practical Nursing Program. This course covers basic anatomy & physiology of the human body systems. Focus is placed on information which will serve as building blocks for providing client care within the PN scope of practice.

**BIO 242** Anatomy and Physiology Supplement (1)

**Corequisites:** BIO 250A & 250B

Supplement and reinforcement of concepts presented in BIO 250A and 250B. Strongly recommended for students who have failed or received a "W" in BIO 250A or its equivalent; recommended for all students in BIO 250A. Course is only offered during late start sessions. Offered in Fall and Spring.

**BIO 246** Microbiology (4)

**Prerequisites:** High School biology or equivalent and High School chemistry or equivalent with a grade of C or better within the last five years.

Basic concepts of microbiology including metabolism, genetics, and inhibition of bacteria, fungi and viruses. Emphasis on human pathogens, infection, resistance, and immunity. Laboratory exercises reinforce lecture concepts and teach fundamental skills in microscopy, aseptic technique, isolation, and identification of microorganisms.

**BIO 250A** Anatomy and Physiology I (4)

**Prerequisites:** High School biology or its equivalent within the last five years with a grade of C or better and CHM 099 or CHM 101/103 or CHM 106 or its equivalent with a grade of a C or better within the last five years.

**Corequisites:** BIO 250B

This lecture course presents the structure and function of the human body, with particular attention to: cell biology, histology, integumentary system, skeletal system, muscular system, nervous system, and endocrine system.

**BIO 250B** Anatomy and Physiology Laboratory I (0)

**Corequisites:** BIO 250A

This lab course features activities that enhance the study of topics covered in the lecture section (BIO 250A). Models, images, and both microscopic and gross specimens are used to illustrate cell biology and various organ systems.

**BIO 251A** Anatomy and Physiology II (4)

**Prerequisites:** BIO 250A and BIO 250B with a grade of C or better and CHM 099 or CHM 101/103 or CHM 106 or its equivalent with a grade of a C or better within the last five years. SCC LPN students who are bridging to RN may take BIO 200A and BIO 200B with a grade of C or better instead of BIO 250A/B.

**Corequisites:** BIO 251B

Continuation of study of structure and function of human body. Topics include cardiovascular system, lymphatic system, respiratory system, digestive system, urinary system, and reproduction.

**BIO 251B** Anatomy and Physiology Laboratory II (0)

**Prerequisites:** BIO 250A & BIO 250B with a grade of C or better.

**Corequisites:** BIO 251A

Continuation of BIO 250B. Use of laboratory activities to enhance study of human body structure and function.

**BIO 280** Nutrition Pathways (3)

**Prerequisites:** BIO 250A/250B with a grade of C or better.

**Corequisites:** BIO 251A/251B (can be taken as a prerequisite or corequisite)

Scientific study of the essential nutrients and their function in the body. Recommended nutrient intakes, diet assessments and planning, relationships between diet and health will also be covered.

**BIO 295** Topics in Biology (1-4 hrs)

**Corequisites:** BIO 297

Topics in biology presented as complete course. May be repeated for credit if the same topic is not repeated. (May require permission of the instructor) Contact department chair for course availability.

**BIO 297** Topics in Biology Laboratory (1-2 hrs)

**Corequisites:** BIO 295

Experimental component of Biology 295 if appropriate for the topic. Contact department chair for course availability.

## BUSINESS ADMINISTRATION - BUS

**BUS 101** Introduction to Business (3)

Survey course covering many facets of business; a general knowledge of the modern business environment. Review of economic, social, legal, and ethical systems affecting U.S. firms. General concepts of business organization, management, people aspects of business, together with functions of production, marketing (including international), accounting, finance, computers, and information systems.

**BUS 105** Business Ethics (3)

Introductory survey of classical and contemporary ethical theories related to current business and computer situations and problems with an emphasis on case studies and examples.

**BUS 115** Introduction to Public Relations (3)

Basic functions of public relations in the public and private sector. Emphasis on history, case studies and writing, including press releases, media plans and speeches. Media's role in public relations, and role in shaping and swaying public opinion. Specific jobs and emphasis areas also covered.

**BUS 198** Business Administration Internship (1-3 hrs)

**Prerequisites:** BUS 201 and department chair or dean permission.

Students placed in position in an agency or in business to gain practical experience and learn specific operational technologies.

**BUS 201** Principles of Management (3)

**Prerequisites:** BUS 101

Presents management and organizational concepts with application to realistic organizational situations. Areas covered include management theory past and present,



functions of management, organizational structure (centralization/decentralization), span of control, motivation theories and practice, together with decision making in daily operations of marketing, production, forecasting, distribution and contemporary issues. Course structured around functions of management planning, organizing, staffing, directing and controlling.

### BUS 204 Total Quality Operations Management (3)

Examines many choices each organization makes on journey to achieving excellence. Study of exemplary organizations, their operational choices, and how those decisions lead to improved financial and market performance. Addresses key operational issues in services and manufacturing such as inventory, production methods, capacity planning, production planning, total quality management, re-engineering business processes, and statistical process control. Examines qualitative and quantitative methods in operations of well-known organizations.

### BUS 206 Human Resources Management (3)

Covers many functions involved in personnel administration as performed by human resources department administrator and line managers. Explores aspects of human resource management: planning, recruiting, interviewing, selecting, placing, training, motivating, evaluating, rewarding, and disciplining employees. Presentation of pay systems, job evaluations, and some labor/management issues. Use of case analysis.

### BUS 208 Entrepreneurship/ Small Business Management (3)

Study of small business and its importance in American economy. Analysis of problems of small business through use of case studies. Application of functions of management to small business environment, including personnel, finance, promotion, government relations, ethics, and insurance.

### BUS 210 Organizational Behavior (3)

Deals with people at work in various organizational situations and how to motivate human assets to work together more effectively. Analysis of how to meet needs and goals of employees within organization while making organization productive. Covers motivation theories, communications, status

and role behavior and contemporary human relations issues in firms.

### BUS 220 Principles of Finance (3)

**Prerequisites:** BUS 101 and MAT 097 or MAT 098 with a passing grade or placement into MAT 121 or higher

Basics of financial analysis, forecasting, operating and financial leverage, working capital, current asset management, short-term financing, time value concepts and practices, and cost of capital equity financing, dividend policy, convertible bonds, warrants and options. Includes role of financial manager in organization.

### BUS 230 Principles of Marketing (3)

**Prerequisites:** BUS 101

Introduces consumer and institutional behavior patterns and overall role of marketing in the economy. Examines marketing process and its functions, together with marketing mix (place, product, price and promotion). Presents psychological and societal motivations that translate need through demand to satisfaction. Provides means to evaluate firm's capabilities, develop marketing strategies, and introduce marketing techniques to meet objectives. Review of marketing ethics and some international aspects of marketing.

### BUS 232 Advertising and Sales Promotion (3)

Introduction to theory, practice, and techniques of advertising. Consideration of role of advertising and sales promotion. General survey of kinds and purposes of media, psychological implications of typical appeals, and limited practice in promotional programming. Coordination of advertising display and publicity in context of realistic sales promotion programs.

### BUS 234 Retailing (3)

**Prerequisites:** BUS 230

Fundamentals of retail store organization and management, including store location, layout, buying, pricing operation, advertising, display, and analysis associated with merchandise handling. Area retailers invited to discuss actual application of various retailing activities, e.g. buying, advertising, and inventory control.

### BUS 236 Consumer Behavior (3)

Marketing strategy and tactics explained based on explicit or implicit beliefs about consumer behavior. Included are external influences to buying, internal influences, the consumer's buying decision process, social and ethical issues in consumer behavior. Presents information search and consumer research methods as well as ultimate consumer and industrial buyers. *Offered in Fall only.*

### BUS 238 Personal Selling (3)

Fundamentals of personal selling from the determination of customer needs to the close of the sale. Treats factors such as customer problems, merchandising knowledge, and personality traits of successful salespersons. Covers special selling topics and the role of the sales manager, together with motivation and compensation of the sales staff. *Offered in Fall only.*

### BUS 246 Legal Environment of Business (3)

**Prerequisites:** BUS 101

Introduction to general nature of law and how its meaning affects climate in which a business operates. Exploration of role of government and government's attitude toward business, antitrust legislation and enforcement, public control through taxation, regulation, competition, mergers, and commerce/trade restrictions. Covers freedom of contract and labor/management relations.

### BUS 255 International Business (3)

**Prerequisites:** BUS 101

Survey course to develop understanding and appreciation of environments and operations of international business. The nature of international business, international environment, organizations and monetary systems, foreign environment, and management tools that deal with environmental forces.

### BUS 270 E-marketing (3)

Examines impact of the Internet on traditional methods of marketing and related business functions. Explores existing and potential use of the Internet for marketing goods and services. Analyzes the effect of the Internet on marketing strategy and the marketing mix. *Offered in Spring only.*

**BUS 272 Social Media Marketing (3)**

Examines how to develop an effective strategy for communicating to a targeted audience using the accelerated tools available in an online market. Will touch on the use of Social Media, Email Marketing, Blogging, SEO and PPC advertisements to create engagement. It will also cover the use of Google Analytics to track performance.

**BUS 298 Business Administration Capstone (1)**

This course is a culminating experience integrating all the course work taken in the Business Administration Associate of Applied Science program. This course includes individual and programmatic assessment. All Business Administration AAS degree-seeking students are required to take this capstone class in their final semester before graduating.

**BUSINESS TECHNOLOGY - BTC****BTC 101 Keyboarding (3)**

Introduction to computer keyboard and development of correct techniques for keyboarding documents. Speed and accuracy exercises to develop necessary skill level. Emphasis on straight copy skills, basic keyboarding applications, and document formatting such as letters, memos, reports, and tabulation problems. Designed for both beginning typists and individuals who need to refresh keyboarding skills.

**BTC 103 Microcomputer Applications (3)**

Introduces use of business applications in word processing, spreadsheets, databases and presentations. Windows application package used for each application (PC-based software only). Keyboarding skills recommended. Students may not receive credit for both BTC 103 and CPT 10.

**BTC 105 Proofreading and Editing Business Documents (2)**

Emphasizes document formatting and review of basic related grammar and punctuation rules. Proofreading and editing techniques applied to business documents.

**BTC 130 Customer Service Excellence (1)**

Develop fundamental principles of serving customer needs. Learn to analyze situations, develop solutions, implement and evaluate effectiveness, and train others. Covers all vital areas to help handle customers professionally, effectively, and successfully. Build good rapport with customers and associates.

**BTC 131 Telephone Communication Skills (1)**

Improve telephone skills to meet needs of workplace and become more customer service oriented in handling of telephone communications. Techniques of scripting and organization. Practice handling variety of customers.

**BTC 132 Time Management (1)**

Time management techniques and organizational planning to improve efficiency on the job. Identify strengths and weaknesses. Develop prioritization skills and learn how and when to delegate.

**BTC 135 Your Professional Image (1)**

Review of appropriate business etiquette in today's workplace. Real applications of best way to develop and maintain a professional image.

**BTC 136 Electronic Communication with Stakeholders (3)**

Apply fundamental communication rules and etiquette to electronic communication and calendars with all stakeholders (employees, customers, vendors, stockholders, etc). Learn how electronic communication has changed internal and external communication, and see how social media fits into this new model.

**BTC 137 Interpersonal Skills (1)**

Develop interpersonal skills needed for today's diverse workplace. Learn to make decisions using problem-solving techniques. Study different types of customers and workers and how to communicate and work successfully with each.

**BTC 145 Business Technology Tools (3)**

**Corequisites:** BTC/CPT 103

Emphasis on the use of technology found in today's business environment. Students will enter and edit information as well as manipulate and format data using the current technology. Voice recognition, mobile computing devices, and other input methods to complete administrative tasks will be addressed. *Offered in Spring only.*

**BTC 160 Word Processing - MS Word (2)**

**Corequisites:** BTC/CPT 103

Focus on learning intermediate and advanced concepts and functions of current version of MS Word. Topics include creating, editing and saving documents to intermediate and advanced functions like merges, macros, tables, wizards/templates, to multi-page documents with many special features.

**BTC 165 Presentations Using PowerPoint (2)**

Presentation and application of beginning through advanced functions of PowerPoint. Topics include: create effective graphic presentations, organize and outline content of presentation, format text and graphics, apply tools, correctly chart/graph information, change color schemes, and create customized templates. Use of resources available for preparing presentations, including effective presentation skills.

**BTC 170 Spreadsheet Applications - Excel (3)**

Presentation and application of business functions of Excel. Topics include formulas and functions, absolute/relative cell references, templates, reports, charting/graphing, formatting, and integration of Excel and MS Word.

**BTC 175 Database Applications - Access (2)**

Presentation and application of Access functions. Topics include: plan and design tables, query data, design and generate forms and reports, establish relationships, manage multiple databases, integrate Access with other MS Office applications.

### BTC 190 Planning and Design Concepts-Microsoft Publisher (3)

Focus is on preparation, planning, and design of various desktop publishing documents using Microsoft Publisher and progresses through publishing projects that will include business and marketing items. The course will transition from introductory concepts regarding preparation, planning and design to putting that information in to practice by creating cohesive publishing projects that mimic real-world applications. *Offered in Fall only.*

### BTC 245 Administrative Procedures (3)

**Prerequisites:** BTC 160 with a grade of C or better (if not taking concurrently)

**Corequisites:** BTC 160 (if not taken as a prerequisite)

Develop understanding of procedures in today's electronic office. Review of composition, telecommunications, electronic mail, making travel and meeting arrangements, document formatting, financial statements, records management, human relations, job application procedures, and decision-making skills. Students must be available for shadowing hours in local business. Students must earn a C or above in the course in order to graduate.

### BTC 247 Administrative Supervision (3)

**Prerequisites:** BTC 160 with a grade of C or better.

Supervision of employees, including how to handle personnel problems, hire, terminate, and promote employees. Also, budgeting, employee evaluations, and use of decision-making skills. Students must be available for shadowing hours in local business. Students must earn a C or above in the course in order to graduate.

### BTC 250 Business Simulations (3)

**Prerequisites:** BTC 103, BTC 160, BTC 165, BTC 170, BTC 175 with a grade of C or better.

Application of all MS Office and desktop publishing skills to complete various office simulation projects. Use of critical thinking, time management, organizational skills, and integration of computer skills as performance standards. Implementation of a realistic work environment. Students must earn a C or above in the course in order to graduate..

## CHEMISTRY - CHM

### CHM 099 Pre-A&P Foundations in Chemistry (2)

**Prerequisites:** MAT 097 or MAT 098 with a passing grade.

This course will serve as a chemistry prerequisite for Anatomy and Physiology I for students. This will not replace CHM 101/103 or CHM 106 in a degree, and does not serve as a general education course. It is assumed this is the first chemistry course taken by the student. Topics include structure of atoms, bonding, solutions, acid-base, chemical reactions, energy and gases. This course will be graded on a Pass/Fail basis. This course does not count toward graduation.

### CHM 101 Introduction to Chemistry (3)

**Prerequisites:** MAT 097 or MAT 098 with minimum grade of C or placement into MAT 121 or higher.

Introduction to basic principles of chemistry, including measurements and problem-solving, atomic theory, chemical nomenclature, chemical reactions, molecular structure, properties of gases, liquids and solids, acid-base chemistry and oxidation-reduction chemistry.

### CHM 103 Introduction to Chemistry Laboratory (1)

**Corequisites:** CHM 101

Hands-on course with emphasis on proper laboratory techniques and experimental activities that illustrate concepts studied in CHM 101.

### CHM 107 Chemistry, Society, and the Environment (3)

**Prerequisites:** MAT 096 or placement into MAT 098 or higher.

This course presents the concepts of chemistry with and emphasis on the natural environment and applications to everyday life. This course is not intended for students planning to major in science or enter an allied health field.

### CHM 115 General Chemistry I (5)

**Prerequisites:** 1 year of high school chemistry or CHM 101 or equivalent with a grade of C or better; and MAT 121 with a grade of C or better or placement into MAT 158 or higher.

This course studies how compounds are formed and named, chemical equations, calculations and problem-solving involving elements, compounds and chemical equations including stoichiometry, thermochemistry; properties of gases, solids, solutions, and acids and bases. Experiments introduce basic lab skills and aspects of qualitative and quantitative analysis.

### CHM 116 General Chemistry II (5)

**Prerequisites:** CHM 115 with a grade of C or better; and MAT 158 with a grade of C or better or placement into MAT 175 or higher.

This course is a continuation of General Chemistry I, and includes study of chemical equilibria, acid base chemistry, kinetics, colligative properties, thermodynamics, oxidation-reduction reactions, nuclear chemistry, and introduction to organic chemistry. Experiments continue to introduce and improve laboratory skills and problem solving.

### CHM 203 Survey of Organic Chemistry (5)

**Prerequisites:** CHM 115 with a grade of C and CHM 116 with a grade of C (may be taken concurrently but not recommended)

One-semester introduction to structure and bonding, functional group chemistry, principles of reactivity, reaction mechanism, and the molecules of life. Cannot be counted toward the Associate of Science in Chemistry Degree.

### CHM 222 Quantitative Analysis (4)

**Prerequisites:** CHM 116 with a grade of C or better.

Principles and practice of quantitative chemistry including descriptive statistics; equilibria pertaining to acid-base, complexometric, redox and solubility; electroanalytical chemistry, gravimetric and volumetric analysis; spectrophotometric analysis and an introduction to chromatography. *Offered in Fall only.*

### CHM 240 Organic Chemistry I (3)

**Prerequisites:** CHM 116 with a grade of C or better.

Introduction to structure, nomenclature, properties, synthesis and reactions of aliphatic and aromatic carbon compounds. *Offered in Fall and Spring.*

**CHM 241****Organic Chemistry II (3)**

**Prerequisites:** CHM 240 with a grade of C or better.

**Corequisites:** CHM 243

Continuation of study of structure, nomenclature, properties, synthesis and reactions of aliphatic and aromatic carbon compounds with emphasis on chemistry of carbonyl compounds. *Offered in Fall and Spring.*

**CHM 243 Organic Chemistry Laboratory (2)**

**Prerequisites:** CHM 240 with a grade of C or better or equivalent.

**Corequisites:** CHM 241

Hands-on introduction to laboratory techniques and procedures of organic synthesis and identification. *Offered in Fall and Spring.*

## COLLEGE DEVELOPMENT - COL

**COL 020 Fall Power Prep (0)****COL 020M - Fall Power Prep Math**

This workshop covers the foundational skills needed for a college level math course. Topics include linear, quadratic, absolute value, rational, exponential, and radical forms of expressions, equations, and inequalities; graphing linear and quadratic equations and circles. Along with suggestions for study strategies, students will be given an edge up for success in their fall math class.

**COL 020R - Fall Power Prep Reading**

This workshop covers how to improve reading speed, fluency, comprehension and critical thinking skills. Topics include the reading process, stated and implied main idea, inferences, drawing logical conclusions, evaluating arguments and effective note taking. Tips and strategies will be discussed that can help all types of learners succeed in their college courses.

**COL 020W - Fall Power Prep Writing**

This workshop covers how to brainstorm, organize, create a hook or grab attention, construct a body paragraph and conclusion and revision strategies. Learn about the parts

of every paragraph to make writing easier and more understandable. Ultimately, you'll create and reflect on your own writing plan that can be used to find success in the many college courses that require writing.

**COL 090 College Study Skills (3)**

Develops, improves, and practices study skills critical to success in college. Skills include time management, concentration, memory, SQ4R textbook study method, note taking from both lecture and textbook, exam preparation and test taking. *Contact department chair for course availability.* This course does not count toward graduation.

**COL 100 College Orientation (0)**

This course is a half day, on campus orientation prior to the start of the semester. Students registered in a COL 101 course will be registered for an orientation session.

**COL 101 College Success Seminar (1)**

**Prerequisites:** COL 100 - College Orientation (May be taken as a prerequisite or corequisite)

**Corequisites:** COL 100 - College Orientation (May be taken as a prerequisite or corequisite)

A required course for degree seeking students covering various aspects of college life including resources and procedures, interacting with instructors, instructor expectations, critical thinking, goal setting and commitment, learning styles, development of network and support groups, value of education and philosophy of learning, identification of student interests and needs, technology used in college classes and study skills.

**COL 104 Online Information and Internet Research (1)**

Skills needed to select and search online information sources. Focus is on strategies for searching online catalogs, indexes, and the Internet. Includes resource comparison, evaluation and citation, and types of information. *Contact department chair for course availability.*

**COL 110 Career Development (1)**

Assists in making career decisions through assessment of interests, values and abilities. Application of these traits to world of work to find career as appropriate combination of these three. In-depth exploration of several careers. *Contact department chair for course availability.*

**COL 299 Sophomore Portfolio Assessment (1)**

**Prerequisites:** ENG 101 and sophomore standing

**Corequisites:** Students should take this course after completing 30 hours of their 42 hour AA general education transfer block.

Students will complete activities from 3 different general education discipline areas: Humanities, Social Science, and Multicultural/Valuing which will include evidence of Higher Order Thinking (HOT) and Managing Information (MI). Students may bring 1 artifact from a previous General Education course and revise it to meet the capstone criteria. *Contact department chair for course availability.*

## COMMUNICATION - COM

**COM 100 Pronunciation and Communication for Non-Native Speakers (4)**

**Corequisites:** ESL 100, ESL 104 and suggested corequisite ESL 107

For the non-native speaker of English, this course focuses on pronunciation improvement. By learning the American style of intonation, rhythm, speech production, and syllable stress, speech will be more understandable, articulate and expressive. Small group and individual communication activities, both speaking and listening, will reinforce these skills. This course is open to non-native speakers of English who are at an intermediate level or above. Students must take the Compass ESL test.

**COM 101 Introduction to Communication (3)**

Focus on importance of communication competence in a variety of situations. Topics include verbal and nonverbal communication, listening, perception, self-concept, small group communication, and public speaking. Students required to prepare and present three to four graded oral presentations.

**COM 102 Introduction to Mass Communication (3)**

Focus on different modes of mass communication including radio, television, film, video, magazines, newspapers, publishing, advertising, public relations, photography, and telecommunications. Development of media from invention to present, effects of media on

society, government controls, censorship, and other issues. *Offered in Fall and Spring.*

**COM 103 Persuasion (3)**

Skills necessary to become informed and critical consumer of persuasive messages. Persuasion examined through popular culture, advertising, politics, and mass media. Insights given into language use and symbols, nonverbal communication, and cultural and psychological approaches to persuasion. *Contact department chair for course availability.*

**COM 104 Small Group Communication (3)**

Study of process of group communication. Focus on group development, group roles, decision-making, leadership, power, and conflict management. How to be more productive member of group by acquiring skills to enhance group interaction. *Offered in Fall and Spring.*

**COM 105 Interviewing (3)**

Focuses on art of interviewing in variety of contexts. Topics include types and uses of questions, common question pitfalls, listening, verbal and nonverbal communication, and specialized types of interviews such as journalistic, survey, persuasive, employment, performance review, counseling, and health care. *Contact department chair for course availability.*

**COM 106 Public Speaking (3)**

In-depth look at art of public speaking. Expands knowledge of ideas and concepts presented in COM 101. Focus on presenting additional types of speeches, including business and organizational, ceremonial, speeches of tribute and acceptance, and toasting. *Offered in Fall and Spring.*

**COM 110 Interpersonal Communication (3)**

How to become more informed and skillful communicators in diverse social world and more aware of how and why misunderstandings arise in communication

among people whose dissimilar backgrounds and identities lead them to have different views about what communication means and does. Topics include dealing with difficult people, expression of emotions, assertiveness training, and conflict management.

**COM 112 Introduction to Radio and Television Broadcasting (3)**

Introduction to broadcasting, including history, government regulations, station operation, and program development. *Contact department chair for course availability.*

**COM 115 Introduction to Public Relations (3)**

Basic functions of public relations in public and private sector. Emphasis on history, case studies, and writing including press releases, media plans, and speeches. Media role in public relations, and role in shaping and swaying public opinion. Specific jobs and emphasis areas covered. *Offered in Fall and Spring.*

**COM 116 Voice and Diction (3)**

**Prerequisites:** COM 101

Study of the development and understanding of respiration, phonation, resonance, articulation, and diction. Student may not receive credit for both COM 116 and THE 115. *Contact department chair for course availability.*

**COM 120 Introduction to Journalism (3)**

Survey of journalism, including history and study of various media. Emphasis is on journalistic principles, writing, editing and makeup, including work on official student publications. *Contact department chair for course availability.*

**COM 121 Electronic News Gathering (3)**

**Prerequisites:** COM 102

Instruction in video skills for pre-production, production, and post-production of television news. On-location, single-camera shooting will be emphasized. Includes lectures, discussions, practical applications, and evaluations. *Contact department chair for course availability.*

**COM 123 Introduction to Cinema (3)**

Introduction to history, theory and criticism of film. Explores American and European film traditions. Major genres, authors and artists, and directing and production styles. Viewing of numerous films representative of various genres and directing styles.

**COM-124 History of Film (3)**

History of cinema from late 19th century beginnings to present. Attention given to technological, economic and artistic issues. Classic films of various directors and countries. Weekly viewings required.

**COM 200 Argumentation and Debate (3)**

**Prerequisites:** COM 101

The discovery, support, and critical evaluation of intelligent arguments and decisions. Studies argument, evidence, reasoning, and oral advocacy; includes investigation, research, and critical analysis of claims and establishment of truth through proof. *Contact department chair for course availability.*

**COM 201 Leadership Theory and Development (3)**

**Prerequisites:** COM 101 or COM 106 or COM 110 or instructor permission.

Leadership, the ability to influence other's behaviors and thoughts to accomplish a goal, is a responsibility faced in a variety of personal and professional contexts. Learn what it means to be a leader, how different leadership styles are utilized and how cultural, ethical and moral pressures affect leadership. Students will identify areas for personal growth and improvement in leadership positions as they learn and develop their own leadership skills, values, ethics and morals. Examination of leadership theory and development will be from a variety of backgrounds.. *Contact department chair for course availability.*

**COM 205 Gender Communication (3)**

Answers to questions that confound women's and men's attempts to communicate with each other. Topics include gender construction through one's culture, portrayal of men and women in media, male and female approaches to conversation, role of power and empowerment in marriage and families, gender relations in workplace, and men and women in education. *Contact department chair for course availability.*

### COM 210 Oral Interpretation (3)

**Prerequisites:** COM 101

Basic study of the principles of oral interpretation and their application performance. Student may not receive credit for both COM 210 and THE 210. *Contact department chair for course availability.*

### COM 215 Intercultural Communication (3)

Explores issues related to intercultural communication process. Considers important role of context (social, cultural, and historical) in intercultural interactions. Topics include stereotyping, prejudice, ethnocentrism, social class and religious identities, folk culture, power, and intercultural conflict. *Offered in Fall and Spring.*

### COM 225 Professional Communication (3)

**Prerequisites:** COM 101

Role of and development of professional communication skills intrinsic to the workplace. Focus is on the development of theoretical and performance competencies in interpersonal communication, small group communication, organizational communication and public communication. Includes understanding organizational diversity and ethics; improving listening skills; enhancing interviewing skills; managing group meetings and teamwork; and presentation of informational and persuasive proposals via enhancement of verbal, vocal and visual strategies. *Contact department chair for course availability.*

### COM 232 Advertising and Sales Promotion (3)

Introduction to theory, practice, and techniques of advertising. Consideration of role of advertising and sales promotion. General survey of kinds and purposes of media, psychological implications of typical appeals, and limited practice in promotional programming. Coordination of advertising display and publicity in context of realistic sales promotion programs. Course is equated to BUS 232.

### COM 240 Writing for the Print Media (3)

**Prerequisites:** ENG 101 with a grade of C or better.

Introductory course in developing skills in writing and reporting for print media. Special attention given to news releases, feature stories, and reporting techniques. Introduction

to use of photography. *Contact department chair for course availability.*

### COM 260 Video Production for the Media (3)

**Prerequisites:** COM 102

Introduction to all aspects of video production. Remote and studio television production will be covered. Hands-on experience in the use of equipment to produce video projects for the media. Consists of lectures, field assignments, in-class activities, and examinations. *Contact department chair for course availability.*

### COM 270 Media Literacy (3)

Emphasis on the ability to access, analyze and evaluate media in a variety of media formats. Review of tools necessary to understand the role of the media as well as skills of inquiry necessary for citizens of a democracy. Media formats examined include journalism, advertising and political communications. *Offered in Fall and Spring.*

### COM 280 Applied Communication Practicum I (3)

**Prerequisites:** COM 102 or COM 115 or instructor permission.

Practical application of mass media content production. Emphasizes production experience on official student publications or Public Relations projects. *Contact department chair for course availability.*

### COM 281 Applied Communication Practicum II (3)

**Prerequisites:** COM 280

Practical application of mass media content production. Emphasizes production experience on official student publications or Public Relations projects. *Contact department chair for course availability.*

### COM 282 Applied Communication Practicum III (3)

**Prerequisites:** COM 281

Practical application of mass media content production. Emphasizes production experience on official student publications or Public Relations projects. *Contact department chair for course availability.*

### COM 290 Topics in Mass Communication (3)

Exploration of a topic selected by the department. Topics may include examination of mass communication in a variety of contexts: presidential elections, mass communication theory, mass communication effects, impact of the Internet, etc. *Offered in Fall and Spring.*

### COM 296 Mass Communication Internship (1-3)

**Prerequisites:** COM 102 or instructor permission.

Students placed in participatory position in mass media corporation or organization. Includes assignments related to internship.

## COMPUTER-AIDED DRAFTING - CDM

### CAD 102 Introduction to SolidWorks (3)

Uses the current version of SolidWorks software to introduce 3D design elements for creating parts, assemblies and engineering drawings. Applications are involved with basic parametric modeling related to the engineering design process using Design Intent. Basic 2D sketches are transformed into 3D parts. Those parts are modified and imported into assemblies which are then employed in custom drawing sheets.

### CAD 103 Introduction to Autodesk Civil 3D (3)

This course utilizes the latest version of Autodesk Civil 3D software. Students will learn to demonstrate survey point and surface layouts as well as basic civil technical information, including topographic mapping, profiles/contours, highway plans, roadway/subdivision layouts, site grading, and sewer designs. During the course, students will process terrain data and complete roadway alignments, profiles, assemblies, and corridors.

### CAD 104 Introduction to AutoCAD (3)

Utilization of the latest version of AutoCAD to create, edit, and store introductory computer drawings. Involves draw and modify commands, layer creation, blocks, and dimensioning. Includes orthographic views, layouts, viewports, paper/model space, scaling, and lineweights. Basic design elements and drafting standards considerations are provided.

**CAD 106 Introduction to Autodesk Inventor (3)**

Using the latest version of Autodesk Inventor students will become familiar with the user interface and navigation, create sketches, model parts and assemblies, and create drawings including bill of materials.

**CAD 107 Introduction to Revit (3)**

Learning of introductory elements of the latest version of Revit CAD software. Acquisition of Building Information Modeling (BIM) knowledge. Perspectives on shared user design utilized in commercial architecture. Perform drawing designs using Revit for floor plans, elevations, sections, and rendering. Perform building estimates and schedules, and construction document sets.

**CAD 144 Introduction to AutoCAD Architecture (3)**

Uses the latest version of AutoCAD Architecture to perform introductory construction techniques, foundation plans, and material requirements. Basic, standardized architectural practices are involved with floor plans, exterior elevations, and specific architectural layering.

**CAD 164 Introduction to AutoCAD Electrical (3)**

**Corequisites:** CAD 104

Uses the latest version of AutoCAD Electrical to draw schematics, logic diagrams, and wire diagrams. Acquire understanding of electronics symbols, components, and references. Apply elements into CAD designs with circuit boards, wiring, and cabling. Use electrical drafting layers on a building floor plan.

**CAD 202 Advanced SolidWorks-CSWA Exam Prep (3)**

**Prerequisites:** CAD 102

Uses the current version of SolidWorks software for intermediate 3D modeling. Course goal is to further develop solid modeling skills and knowledge of the SolidWorks software package. Student will develop an understanding of advanced techniques for the application of Mold Design, Sheet Metal, Photoview 360, Simulation Finite Element Analysis (FEA), Surfaces, Advanced Feature and Assembly Modeling. Students will have an opportunity to take the Certified SolidWorks Associate Exam in class.

**CAD 237 Structural Drafting with Revit (3)**

**Prerequisites:** CAD 107 with a passing grade.

In this course, students will perform structural shop drawings using the most current version of Autodesk Revit, achieve conceptual understanding of structural design and economic considerations, acquire understanding of steel grades and shapes, learn framing elements, use critical tables, and use reference materials for structural designs.

**CAD 244 Architectural Drafting With AutoCAD (3)**

**Prerequisites:** CAD 144

Acquisition of intermediate level architectural drafting using the most recent version of AutoCAD Architecture. Understanding of site planning, load design elements, framing methods, alternative elevations, and beam sizing. Involves knowledge attainment of millwork and cabinet technology, rendering methods, and building codes.

**CAD 247 Architectural Drafting with Revit (3)**

**Prerequisites:** CAD 107 with passing grade.

Utilization of most recent version of Revit software to design a three story commercial project. Understanding of practices for commercial models, view, dimensions, families, and editing. Learning of landscaping, curbing, parking, and walkway design. 3D design incorporation of foundation setting, beams, and footings. Creating of custom stairs and railings. Comprehension of intermediate level BIM practices.

**CAD 254 HVAC Drafting with AutoCAD (3)**

**Prerequisites:** CAD 104 with passing grade.

Utilizes the latest AutoCAD software to draw HVAC designs, schedules, and reference data. Knowledge acquisition of relevant HVAC scientific elements- including heat, thermodynamics, and combustion. Course topics include heating and air conditioning systems/designs.

**CAD 257 Mechanical, Electrical, and Plumbing Drafting with Revit (3)**

**Prerequisites:** CAD 107

T each concepts, principles, and applications of 3D parametric models and computer designs using Autodesk Revit software. Create, document and print mechanical, electrical, and plumbing (MEP) components in shared (multiuser) model structure. Provide applications relevant to construction, architecture, industry, and engineering.

**CAD 274 Geometric Dimensioning/Tolerance with AutoCAD (3)**

**Prerequisites:** CAD 104

This course uses the latest AutoCAD version to apply geometric dimensioning and tolerancing (GD&T). In this course, students will gain an understanding of drafting symbols, tolerance calculations, datums, material conditions, and material boundaries. Students will perform application of form, orientation, and location tolerances, and understand profile and runout tolerances.

**CAD 290 Externship (3)**

**Prerequisites:** CAD/CDM department chair permission and meet externship requirements.

Involves obtaining credit for workplace learning of computer-aided drafting practices, methods, and applications. Must have an existing or pending CAD learning employment situation before seeking approval by the CAD Program Coordinator. Course involves validation of workplace learning and a documented report of learning experiences.

**CAD 299 CAD Capstone (1)**

**Corequisites:** Application for graduation.

Enrollment can occur during the last semester of study for a C.S., C.A., or A.A.S. degree in computer-aided drafting. Class involves meetings to organize materials and planning for employment (or future advancement) interaction with SCC Career Services Dept. is included. A portfolio of coursework drawing designs, sketches, and other drafting work is developed. Standardized assessments, including Missouri drafting standards, are performed.

## COMPUTERS - CPT

### CPT 103 Microcomputer Applications (3)

Introduces use of business applications in word processing, spreadsheets, databases, and presentations. Windows application package used for each application. (PC-based software only.) Keyboarding skills recommended. Students may not receive credit for both BTC 103 and CPT 103.

### CPT 104 Animation & Game Programming with Unity (3)

**Prerequisites:** CPT 135

The course examines the proper steps in the creation of animation and game design. It covers the history of gaming, game genre, story and character development, and game management. Students will also use Unity to create simple games.

### CPT 105 Ethics in Technology (3)

Introductory survey of classical and contemporary ethical theories related to technology use today and problems with an emphasis on case studies and examples.

### CPT 106 Operating Systems (3)

Introduction to the concepts of computer operating systems, including DOS, Linux and Windows 7. Covers the three types of interfaces: command line, menu, and graphical. Operating concepts of file, disk, and other resource management.

### CPT 115 Introduction to Information Technology (3)

Introduction to computer systems with topics that include system components, data storage techniques, binary arithmetic, operating systems, device characteristics and programming.

### CPT 121 Basics of Data Communications (3)

Understanding and appreciation of data communications from user's perspective. Overview of data communications concepts to address data communications issues in contemporary home or business environment.

### CPT 125 Introduction to Project Management (3)

This course will introduce the students to the basic principles of Project Management. The students will be taught five of the ten

Knowledge Areas of the Project Management Body of Knowledge (PMBOK).

### CPT 135 Computer Science 1 with Python (4)

Introduction to programming languages using Python, a newer and simpler language designed to be easier to learn. Python teaches basic skills used in more complex languages such as Java or C++. Students will learn problem-solving methods and proper programming technique and structure, as well as design complex algorithms using pseudocode and flowcharting. Students will also cover the basics of project management and the project life cycle.

### CPT 140 Data Visualization with Tableau (3)

**Prerequisites:** CPT 135, BTC 170, or MAT 175

Introduction to key concepts in data visualization and reporting. Includes concepts and methods used in graphical representation of data, exploration and reporting of data, and basic linear regression methods. Upon completion, students should be able to effectively use graphical tools to communicate insights about data.

### CPT 160 Mobile Apps Development (3)

**Prerequisites:** CPT 135 or instructor permission.

Developing applications for mobile devices on various platforms.

### CPT 165 Programming Logic for Engineers & Scientists (1)

This is a supplemental course for non-computer science majors wanting to learn a programming language but have little-to-no experience in computer science. It focuses on language-agnostic problem solving and algorithm development. The course also covers pseudo code, flowcharts, branching, looping, and coding in high-level interpreted language.

### CPT 181 SQL Programming (3)

**Prerequisites:** CPT 103 or instructor permission.

Extensive hands-on activities using in-class SQL-based relational database to transform request into SQL query. How to create and test increasingly complex queries, how to build tables using data definition capabilities of SQL, how to create views for querying and

manipulating data, and how to index in SQL database..

### CPT 182 Computer Science II with C++ (3)

**Prerequisites:** CPT 135 or CPT 165

Working knowledge of object-oriented programming using C++ language. Features extensive hands-on programming development using C++ compiler on IBM-compatible system.

### CPT 185 C# Programming (3)

**Prerequisites:** CPT 135 or CPT 165

Object-oriented approach to programming as well as the C# programming language.

### CPT 187 Visual Basic.NET Programming (3)

**Prerequisites:** CPT 135 or CPT 165

Using Visual Basic (.NET), design effective user interfaces using appropriate controls, properties and coding.

### CPT 188 Javascript (3)

**Prerequisites:** CPT 160

JavaScript Specialist focuses on the fundamental concepts of the JavaScript language. Students learn how to use JavaScript to communicate with users, modify the Document Object Model (DOM), control program flow, validate forms, animate images, create cookies, change X/HTML on the fly, use JavaScript libraries, incorporate AJAX into JavaScript code, communicate with databases, and debug and troubleshoot Javascript

### CPT 189 Computer Science II with Java (3)

**Prerequisites:** CPT 125 or CPT 165

This class will provide students with the opportunity to master basic fundamentals of the Java programming language, to understand Object Oriented Design (OOD) and Object Oriented Analysis (OOA).

### CPT 198 Computer Science Internship (1-3 hrs)

**Prerequisites:** Department chair or dean permission.

Requires prior approval of department chair or dean. Students placed in a position in business to gain practical experience and learn specific operational technologies.



### CPT 200 Systems Analysis and Design-Capstone Project(3)

**Prerequisites:** Take CPT-201, CPT-204, CPT-225, CPT-281, CPT-287 or GEO-225 previously or concurrently.

Orientation to the development of computer-based man-machine information systems. Study of system life cycles, development of logical systems specification, data collection techniques, human factors design and standards for documentation.

### CPT 201 Database Design & Administration (3)

**Prerequisites:** CPT 103 or CPT 181

Practical foundation for the design, implementation and management of database systems. Includes the Internet's impact on how databases are designed, implemented and used.

### CPT 207 Career Development for Technology Professionals (1)

**Prerequisites:** Students must complete 30 hours in program credits before enrolling in this course.

Learn from industry leaders the best way to interact with peers, management, upper management, customers and subordinates. Attend weekly talks with technology leaders either in person, via video conferencing, and in prerecorded interviews to learn the best way to navigate the working environment.

### CPT 210 Analytical Tools and Methods (3)

**Prerequisites:** CPT 135 or CPT 181

Focus is on the advanced statistical and analytic tools for use in decision-making. Included, an overview of data mining, unsupervised machine learning techniques, analysis of semi-structured and unstructured data, and text analytics. Upon completion, students should be able to analyze complex data with modern analytical tools and methods.

### CPT 225 Advanced Topics in Project Management (3)

**Prerequisites:** CPT 125

This course is an extension of the CPT-125 Introduction to Project Management and will introduce the students to more advanced concepts. The students will be introduced to the remaining five of the ten Knowledge Areas of the Project Management Body of

Knowledge (PMBOK). The students will also run a simulated project.

### CPT 235 Understanding Big Data with Apache Spark (3)

**Prerequisites:** Take CPT 135, CPT 140, & CPT 181

Introduction to Apache Spark and its use in analyzing big data with algorithms written in Python. Perform statistical data analysis, data visualization, predictive modeling, and build scalable data products or solutions. Also introduces R and Scala as alternate development languages.

### CPT 246 Computer Security (3)

**Prerequisites:** CPT 121

Exploration of LAN and WAN network security issues and various resolutions to the problems.

### CPT 250 Database Driven Website Programming with PHP & MySQL (3)

**Prerequisites:** CPT 135 & CPT 181

This course covers the creation and maintenance of database driven websites or applications using PHP & MySQL.

### CPT 260 Oracle Programming (3)

**Prerequisites:** CPT 181 or instructor permission.

In-depth coverage of Oracle's current Programming Language/ Structured Query Language (PL/SQL) bringing all benefits and capabilities of a high-level programming language to the database environment.

### CPT 281 Introduction to Data Structures With C++ (3)

**Prerequisites:** CPT 182

Provides students with the opportunity to master advanced programming techniques to obtain a higher level understanding of Object Oriented Design (OOD) and Object Oriented Analysis (OOA) using C++.

### CPT 287 Introduction to Data Structures with Java (3)

**Prerequisites:** CPT 189 or instructor permission.

Provides students with the opportunity to master advanced programming techniques to obtain a higher level understanding of Object Oriented Design (OOD) and Object Oriented Analysis (OOA) using Java.

## COMPUTERS/ MULTIMEDIA

### CPM 120 Introduction to Multimedia (Adobe Creative Cloud) (3)

Multimedia refers to computer-based applications that allow for the communication of ideas and information with digital and print elements. Introduction to current multimedia topics, technologies and techniques using current Microsoft Windows based on software applications. Computer literacy, including the understanding of file format, file structure and file storage, is required. *Offered in Fall and Spring.*

### CPM 160 Frontend Web Development (HTML/CSS/ JavaScript) (3)

Course includes hands-on scripting of HTML5 and CSS3 to develop well-designed websites. Learn to enhance a site with audio and visual clips, forms with HTML5 data validation, or CSS3 transitions. Use JavaScript and jQuery to add features like accordions, tabs, and slide shows to a page. Explore the principles of web design and Search Engine Optimization (SEO), as well as how to deploy your finished sites. Create Responsive Web Design so pages will look great and work correctly on any screen, from phone to tablet to desktop.

### CPM 170 Computer Graphics (Adobe Illustrator) (3)

Designed to examine vector graphics software to create commercial design and illustrations for multimedia presentation. Emphasis will include use of tools, workspace and current commercial design trends. Adobe Illustrator is the industry-standard vector graphics software and used alongside Adobe Creative Cloud to allow students to create and develop products based on modern commercial graphic design, which could include logos, graphics, fonts and layouts. Students will also gain the requisite skills to pass the "Adobe Certified Professional in Graphic Design & Illustration Using Adobe Illustrator" certification should they choose to sit for the exam.

### CPM 175 Digital Media Publication (Adobe InDesign) (3)

Through this course, students are taught the techniques needed to design, layout, and produce information for the web using the most popular current graphics and publishing software. Students will learn to work with parent pages, object layers, color, typography, styles, tables, and transparency. Additionally, basic techniques for modifying graphics, creating proofs, form development, and electronic and online publishing will be covered. Computer literacy, including the understanding of file formats, file structure, and file storage are required. Students will also gain the requisite skills to pass the "Adobe Certified Professional in Print & Digital Media Using Adobe InDesign" certification should they choose to sit for the exam.

### CPM 180 Digital Photo Editing (Adobe Audition) (3)

Through this course, students are taught the techniques needed to edit audio efficiently and creatively, enhance video soundtracks, and craft inspired music using the most popular current audio editing software. Students will learn to perform audio tasks like editing, audio restoration, file import/export, multitrack recording, mixing, film audio post-production, and mastering. Computer literacy, including the understanding of file formats, file structure, and file storage, are required.

### CPM 190 Backend Web Development (Javascript/XML/PHP/MySQL) (3)

Introduction to tools and skills required to build and maintain WWW server sites, using a variety of languages. Online only. *Offered in Fall and Spring.*

### CPM 210 Digital Photo Editing (Adobe Photoshop) (3)

Students learn techniques needed to correct, enhance and modify digital photos, create image composites, and prepare images for print or the web using the most popular current digital photo editing software Adobe Photoshop. Emphasis on vector drawing, video editing, mixing colors and painting, and preparing for printing on screen or in 3D. Computer literacy, including the understanding of file formats, file structure and file storage, are required. Students will also gain the requisite skills to pass the "Adobe Certified Professional in Visual Design Using Adobe Photoshop" certification should they choose to sit for the exam.

### CPM 220 3D Modeling and Animation (Sketchup) (3)

Hands-on course includes the popular easy-to-use 3D modeling application SketchUp. Provides foundational understanding of the 3D drawing, design and rendering tools offered in this powerful software. Includes navigating the interface, manipulating objects, drawing in 2D and 3D space, leveraging organizational tools, and working with materials and textures. Students will work with reusable components and apply simple styles and animation to 3D projects.

### CPM 230 Social Media Marketing (3)

Examines how to develop an effective strategy for communicating to a targeted audience using the accelerated tools available in an online market. Will touch on the use of Social Media, Email Marketing, Blogging, SEO and PPC advertisements to create engagement. It will also cover the use of Google Analytics to track performance.

### CPM 240 Web Development Process (3)

Introduction to techniques used develop Web sites. Emphasis is placed on the Web project lifecycle and client-side or frontend web site development for business. Topics include wireframes, prototypes, pages, tables, forms, media asset linking, technology stacks, HTML, CSS, JavaScript, SEO, CMS, and hosting. A variety of industry standard free and proprietary tools and software are utilized. *Offered in Fall and Spring.*

### CPM 250 Visual Effects (Adobe After Effects) (3)

Hands-on course teaches the popular software Adobe After Effects and provides a comprehensive set of 2D and 3D tools for animation and visual effects. Includes integration video, audio, graphics, and Photoshop and Illustrator files; animating techniques; masking, keying and tracking, compositing, animation and rendering to create powerful motion graphics. Students will also gain the requisite skills to pass the "Adobe Certified Professional in Visual Effects & Motion Graphics Using Adobe After Effects" certification should they choose to sit for the exam.

### CPM 260 WordPress (3)

Focus on the benefits of using self-hosted WordPress, the leading platform used to

develop a web presence in today's market that is SEO friendly, secure and ready to support a company's digital marketing strategy. Explores how to securely set-up WordPress, how to customize a theme to create a unique design, general maintenance techniques, and how to expand a site's functionality to include e-commerce and membership solutions. *Offered in Fall and Spring.*

### CPM 270 Digital Video Editing (Adobe Premiere) (3)

Introduction to digital video editing using Adobe Premiere. Gain hands-on experience with the latest digital video editing tools and techniques to create videos for broadcast and social media. Learn how to build complex moving images, incorporate video and audio effects, create graphics and finalize a project for use across multiple screen formats. Students will also gain the requisite skills to pass the "Adobe Certified Professional in Digital video Using Adobe Premiere Pro" certification should they choose to sit for the exam.

### CPM 290 Topics in Multimedia & Web Development (3)

Instructor's permission required. Independent in-depth study on web development or multimedia topic/software. Topics can include Advanced Photoshop, Advanced Illustrator, cartoon and game animation, web scripting languages, portfolio development or a topic of choice. *Offered in Fall and Spring.*

### CPM 295 Web Project/Portfolio (Capstone) (3)

**Prerequisites:** CPM 160

Beyond basic Web design, course focuses on responsive design (design for mobile devices), search engine optimization, analytics and implementing jQuery. Students will create a Web-based portfolio and utilize project management tools. *Offered in Spring only.*

## CRIMINAL JUSTICE - CRJ

### CRJ 103 Addictive Disease Concepts (3)

Explores addiction from historical and theoretical background to current concepts. Variety of addictive behaviors examined with special focus on psychoactive drug dependency. *Offered in Fall only.*

**CRJ 104 Treatment: Alcohol and Drug Abuse (3)**

Focus on treatment of alcohol and drug abuse as a continuum of processes from intervention through rehabilitation. Incorporates ways to address needs of people suffering from alcohol and drug abuse. *Offered in Spring only.*

**CRJ 110 Criminal Investigations (3)**

Introductory perspective on the tactics, strategies, and techniques of criminal investigations. *Offered in Fall only.*

**CRJ 140 Introduction to Criminal Justice System (3)**

Overview of criminal justice system, including historical development, present status, and suggested reforms. Includes detailed descriptions of duties and functions of specific actors in system, including victim, offender, police, prosecuting and defense attorneys, courts and corrections.

**CRJ 165 Introduction to Security (3)**

Survey of security systems and techniques, security surveys, and economic factors related to security. *Contact department chair for course availability.*

**CRJ 170 Criminal Law and Procedure (3)**

Analysis of substantive criminal law and criminal procedure. Specific attention given to Missouri Criminal Code and cases that interpret Missouri laws. *Offered in Fall only.*

**CRJ 171 Rules of Criminal Evidence (3)**

Basic rules of evidence applicable to criminal and other related police duties. Examines fundamental questions of evidence and theories of proof, including hearsay, documentary proof, self-incrimination, relevance, and presumptions. *Offered in Spring only.*

**CRJ 175 Criminology (3)**

Study of various explanations of crime: classical psychological, sociological, critical, and interactionist. Examines array of responses available to system, including punishment by incarceration and other alternatives.

**CRJ 201 Criminal Justice: Politics and Policy (3)**

**Prerequisites:** CRJ 140

Examination of the conflicting and converging needs and skills of social roles necessary for sound criminal justice system in society. Objectives, activities and skills of citizen, criminal justice professional, and social scientist identified and analyzed. *Offered in Fall and Spring.*

**CRJ 202 Correctional Institutions (3)**

Detailed examination of American correctional institutions, including roles of detainees or inmates, correctional officers, and administration. Topics include classification schemes, prison life and violence, and conflict between custody and treatment functions of institution. *Contact department chair for course availability.*

**CRJ 206 Introduction to Juvenile Justice Service Systems (3)**

Introduction to a wide variety of available youth services including, but not limited to education, juvenile courts, substance use treatment, and residential care. Addresses needs and issues of at-risk youth, their families, schools and communities. Review of organization, functions and jurisdiction of juvenile agencies and courts. *Offered in Fall and Spring.*

**CRJ 211 Introduction to Victimology (3)**

Introduces psychological impact incurred by crime victims. Basic crisis intervention techniques, working with and understanding special populations of victims and their needs, i.e. family violence, sexual assault victims, child victims, homicide survivors and response of criminal justice system, current laws and review of history of victim movement. *Offered in Fall only.*

**CRJ 224 Constitutional Law (3)**

Examines United States Constitution and relationship to American Society as a whole and criminal justice system in particular. *Offered in Fall and Spring.*

**CRJ 230 Crisis Intervention (3)**

Introduction to theories and practices related to intervening and mediating in and defusing

crises, and referral of people in crises. *Offered in Spring only.*

**CRJ 240 Probation and Parole (3)**

Historical development, relative merits and disadvantages of these programs, and analysis of their success as applied in all types of probational systems. *Contact department chair for course availability.*

**CRJ 260 Community Policing (3)**

Studies development of police-community relations units, analyzes current police-community relations programs in large cities, and engages in hands-on development and observation of programs in action. General Education Skills Assessment is embedded. *Contact department chair for course availability.*

**CRJ 265 Internship (1-6 hrs)**

**Prerequisites:** Instructor's permission (Usually students seeking an internship with SCC have attained sophomore standing, have completed at least 9 credit hours in CRJ prefix courses with a minimum of a 2.33 GPA in those courses and a 2.0 GPA overall at SCC for all courses taken. Students are expected to be free of any record of academic dishonesty or criminal record of any kind excluding minor violations such as traffic tickets. Students themselves are expected to initially contact agencies directly to apply for the internship).

Students placed in participative position in criminal justice agency.

**CRJ 266 Internship II (1-6 hrs)**

**Prerequisites:** CRJ 265

Students enroll in Criminal Justice Practicum a second time. *Contact department chair for course availability.*

**CRJ 280 Comparative Criminology and Criminal Justice (3)**

**Prerequisites:** Completion of 24 credit hours of 100 level or above, prior to enrollment.

Analysis of criminal justice systems and crime in other cultures and how other cultures define and respond to criminal behavior. *Contact department chair for course availability.*

**CRJ 290 Special Topics in Criminal Justice (1-3 hrs)****Prerequisites:** Instructor permission.

Credit for individual study or selected classes in subjects such as role of women in the criminal justice system, poverty and crime, or police civil liability. Instructor's approval required. *Offered in Fall and Spring.*

**CRJ 291 Mock Trial (1-3 hrs)**

Clarifies working roles in legal establishment. Students portray each of courtroom principals: judge, prosecutor, defense attorney, defendant, and juror. Study hypothetical case through research and work with attorney instructors in courtroom setting. Procedures and working knowledge of judicial system. *Contact department chair for course availability.*

**CRJ 292 Mock Trial Competition (1-3 hrs)****Prerequisites:** CRJ 291

Students compete in American Mock Trial Association Regional Tournament. *Contact department chair for course availability.*

**CRJ 298 Criminal Justice Capstone (1)**

Culminating experience integrating Criminal Justice Associate of Applied Science program course work. Required for Criminal Justice AAS degree-seeking students in the final semester before graduation. *Offered in Fall and Spring.*

**CULINARY - CUL****CUL 100b Culinary Fundamentals for Career Path-Lab (4)****Corequisites:** CUL 100A, CUL 101, CUL 106, CUL 107, & CUL 130

Master fundamental concepts, skills, and techniques in basic cookery. Emphasis is on ingredients, cooking methods and procedures in the preparation of meats, fish, poultry, stocks, soups, sauces, vegetables, and starches. Acquire organizational skills, work coordination and knife skills.

**CUL 100a Culinary Fundamentals for Career Path-Lecture (1)****Corequisites:** CUL 100B, CUL 101, CUL 106, CUL 107, & CUL 130

Master fundamental concepts, skills, and techniques in basic cookery. Emphasis is on

ingredients, cooking methods and procedures in the preparation of meats, fish, poultry, stocks, soups, sauces, vegetables, and starches. Acquire organizational skills, work coordination and knife skills.

**CUL 101 Sanitation and Safety for Food Service (1)**

Principles and practices of sanitation and hygiene as it applies to the food service industry.

**CUL 106 Egg Cookery and Cold Foods (3)****Corequisites:** CUL 100A & CUL 100B

In this course, students work to master the fundamentals of traditional breakfast cookery and cold food production. Topics include egg cookery, breakfast meats, vegetable and fruit salads, dressings, bound salads, cold sandwiches, dips, spreads, cold soups, and hors d'oeuvres.

**CUL 104 Stocks, Soups and Sauces (2)**

Introduction to cooking terminology, techniques, and theories. Stock, soup, and sauce production. *Offered in Fall and Spring only.*

**CUL 105 Garde Manger and Charcuterie (3)**

Introduction to cooking terminology, techniques, and theories in the cold kitchen. Areas of study include salads, sandwiches, appetizers, canapés, and hors d'oeuvres with emphasis on flavor profiles, visual composition, and buffet presentation. Charcuterie explored through sausage making, cured and smoked foods, and the use of forcemeats in terrines, pâtés, galantines, and roulades. Traditional and practical use of repurposing meat, garniture and accoutrements, and classic and modern culinary trends are covered. *Offered in Fall and Spring only.*

**CUL 107 Sustainable Food System for Culinarians (3)****Corequisites:** CUL 110A, CUL 110B, CUL 101, CUL 106, CUL 130 or instructor permission.

In this course, students gain an understanding of the structure and function of the greater food system and learn how and why the life cycles of various food products differ. Students examine the paths that different food products take from production to consumption and how these paths differ from product to product

and region to region. Throughout the course, students are encouraged to focus their studies on a food product or region that is of interest to them.

**CUL 110b Introduction to Baking for Career Path-Lab (4)****Corequisites:** CUL 110, CUL 101 or with instructor permission.

An introduction to baking and pastry making. Techniques for the quality production of yeasted and quick breads, pies and tarts, choux pastry, phyllo and puff pastry applications, basic cakes, cookies, ice cream and sorbets, Bavarians and mousses, and fruit cookery.

**CUL 110a Introduction to Baking for Career Path-Lec (1)****Corequisites:** CUL 110B, CUL 101 or with instructor permission.

An introduction to baking and pastry making. Techniques for the quality production of yeasted and quick breads, pies and tarts, choux pastry, phyllo and puff pastry applications, basic cakes, cookies, ice cream and sorbets, Bavarians and mousses, and fruit cookery.

**CUL 111 Breads (3)****Prerequisites:** CUL 110A, CUL 110B, CUL 101 or with instructor permission.

Introduction to the techniques for preparation of assorted breads, quick breads, yeast-raised, laminated, and enriched doughs as well as cookies, pies, and basic bakery staples. The use of baking equipment, scaling, and shaping techniques, inventory control, baker's mathematics, and sanitation are covered. *Offered in Fall and Spring.*

**CUL 112 Pastries (3)****Prerequisites:** CUL 110A, CUL 110B, CUL 101 or Instructor permission.

Students gain working knowledge of traditional and contemporary methods of producing puff pastry, pate a choux, creams, custards, tarts, and mousses. Fundamentals of production and finishing techniques are introduced.

**CUL 113 Chocolates and Sugars (3)****Prerequisites:** CUL 110A, CUL 110B, CUL 101 or instructor permission.

Students will learn the proper tempering techniques of chocolate. Hand-dipped and molded candies will be produced utilizing various methods. Variations of chocolates,

fillings, and decorations will be utilized in daily activities. Students will also produce sugar-based candies utilizing various production methods.

### CUL 114 Cake Baking and Decorating (3)

**Prerequisites:** CUL 110A, CUL 110B or instructor permission.

Cake production and decoration techniques are explored. Emphasis will be placed on mixing methods of batters, fillings, and icings. Skills taught include cake decoration, piping techniques, writing with chocolate, and proper use of a pastry bag.

### CUL 115 Plated Desserts and Presentation (3)

**Prerequisites:** Take CUL 110A; CUL 110B, CUL 101 or instructor permission.

Focuses on the preparation and presentation of plated desserts. Contemporary versions of traditional desserts will be created utilizing several styles of plate presentation. Advanced flavor development will be introduced. Students will simulate a la carte restaurant plating techniques to present large quantities of finished desserts.

### CUL 130 Purchasing for Restaurant and Hospitality (3)

**Corequisites:** Take CUL 110A, CUL 110B, CUL 101, CUL 106, & CUL 107 or instructor permission.

Students learn the application of tools to manage and control food and labor costs in the food service industry. Students also investigate the fundamental flow of the purchasing cycle including procuring vendors, selecting products, placing orders, and proper receiving procedures. Emphasis placed on understanding and controlling food and labor costs through forecasting, inventor evaluation, and income statements. Hospitality business structures and service styles are discussed at length.

### CUL 131 Menu Design and Management (3)

The role and importance of proper wait service to the tourism and hospitality industry. Case studies, cost, and control factors in the construction and management of a function menu will be covered. *Offered in Fall and Spring.*

### CUL 132 Bar and Beverage Management (3)

Introduction to managing and serving wine, beer, spirits, and non-alcoholic libations and their role in the restaurant industry from a culinary and marketing perspective. Examination of historical, geographical, cultural, and profitable roles beverages play. Terminology and theories of pairing beverages with food, production, sanitation, employee management, purchasing, receiving, storing, and regulation is explored. Development of new beverage concepts. **\*ServSafe Alcohol certification.** *Offered in Fall and Spring.*

### CUL 140 Principles of Nutrition (3)

Emphasis on nutrition concepts in disease management. For example, examination the role of good nutrition in managing cardiovascular disease and diabetes. Learn to modify diets to meet the needs of individuals based on their various health concerns. Examines how vitamins and fast food affect overall nutrition. *Offered in Fall and Spring.*

### CUL 150 World Cuisine (3)

**Prerequisites:** CUL 101A, CUL 101B, CUL 101 or instructor permission.

**Corequisites:** CUL 140, CUL 131, CUL 132, CUL190

Students study the cultural heritage, local foods, and food preparation techniques native to the different regions of the world. As students prepare the cuisine of these regions, they will explore the food customs of its people, local history and geography.

### CUL 190 Culinary Major Technique (3)

**Prerequisites:** CUL 100A, CUL 100B, CUL 101 or instructor permission.

**Corequisites:** CUL 131, CUL 132, CUL 140, CUL 150

Continuation of cooking terminology and theories and major cooking techniques. Food groups including fresh and dry pasta, bean and legumes, rice and grains, vegetable and potato, and advanced sauce and soup production, and butchery/charcuterie will be explored. Introduction to plate presentation, banquet-style service.

### CUL 290b Internship (5)

**Prerequisites:** CUL 100A, CUL 100B, CUL 101 or instructor permission.

### **Corequisites:** CUL 290A

Integration of theory and practice in a real-world work environment, fifteen hours per week of supervised field experience in culinary business setting.

### CUL-290a Capstone (1)

**Prerequisites:** CUL 100A, CUL 100B, CUL 101

### **Corequisites:** CUL 290B

Classroom sessions focus on internship reflection, industry-specific career development and planning skills, and preparation of a professional portfolio.

### CUL 292 Topics in Culinary (3)

**Prerequisites:** CUL 100A, CUL 100B, CUL 101, and department chair permission.

Students participating in workshops, series, and other special events through SCC's Culinary & Agricultural Center can earn credit with department chair approval.

## DIVERSITY - DC

### DC 299 Diversity Portfolio (1)

For students who completed a semester study-abroad program or four courses denoted as diversity courses (as one of three choices for the second part of the certificate). Students will work with the Academic Diversity Initiatives Lead in an independent study. Student will write a paper/response about diversity from three scholarly articles, a film, book, or speech/festival, event or performance that explores diversity.

## ECONOMICS - ECO

### ECO 100 Survey Economics (3)

**Prerequisites:** MAT 096 or placement into MAT 098

Introduction to basic economic decision-making at both micro and macro levels. Overview of topics relating to aggregate economic activity and to individual economic activity of households and firms.

### ECO 110 Principles of Macroeconomics (3)

**Prerequisites:** MAT 097 or MAT 098 or placement into MAT 121

Introduction to determination of aggregate measures of economic activity, price level, employment and national output. Topics include inflation, unemployment and economic growth; money and banking system; and formulation of fiscal and monetary policies in pursuit of economic stabilization.

### ECO 120 Principles of Microeconomics (3)

**Prerequisites:** MAT 097 or MAT 098 or placement into MAT 121

Introduction to determination of prices in product and factor markets. Topics include individual decision-making behavior of households and firms; interactions in markets of varying degrees of competition; and effects of such markets on allocation of scarce resources and distribution of income.

### ECO 220 Money and Banking (3)

**Prerequisites:** ECO 100 or complete high school economics course

Examination of nature of money and factors influencing money stock; introduction to monetary theory and policy; and impact of monetary phenomena on employment, production, prices and balance of payments.

## EDUCATION - EDU

### EDU 101 Introduction to Teacher Education (1)

**Corequisites:** EDU 212 (It is recommended to take EDU 212 in the same semester as EDU 101; however, EDU 101 may also be taken as a pre-requisite to EDU 212 if taken in different semesters.)

Introduction to the field of education. Gain experience in presenting lessons to a P-12 classroom, including the realities of day-to-day teacher preparation including state standards for teacher candidates and P-12 students, lesson plan development, and educational policy, as well as degree and certification requirements in Missouri. To successfully complete EDU 101, students must pay for and pass a criminal background screening (prior to entering P-12 schools), join the state and local chapter of MSTA, and complete five hours of observation/field experience work in a P-12 classroom. Must be 18 years old to take this course due to background check requirements.

### EDU 125

#### Literacy and Storytelling for Young Children (3)

Utilizing various genres of children's literature students will learn to communicate through the use of storytelling to support literacy and language development in young children.

Storytelling enhances all curricula and addresses all core subjects. With the written and the spoken word combined, storytelling enhances reading and language acquisition. Six hours of site observation required.

### EDU 201

#### Cognitive Activities and STEM for Young Children (3)

**Prerequisites:** CDC 112 or EDU 240

Focus on developmentally appropriate methods and materials to enhance young children's awareness of science, technology, engineering and math concepts. Emphasizes techniques to develop observation, problem solving and thinking skills. Site observations are a part of the course work. Students may not receive credit for both EDU 201 and CDC 201.

### EDU 202 Music, Movement and Creative Play for Young Children (3)

Introduces techniques and materials to foster creativity, imagination and artistic expression. Explores music and movement activities to support perceptual, fine and gross motor development. Investigates the role of play in children's development. Examines teacher's role in planning and implementing process-oriented activities. Students cannot receive credit for both CDC 202 and EDU 202.

### EDU 205 Children, Families and Communities (3)

**Prerequisites:** CDC 101 or EDU 212 & ENG 101

Overviews interrelationships between children, families and society. Highlights topics of home/school, communication and involvement, community resources and societal influences such as violence and divorce. Students cannot receive credit for both CDC 205 and EDU 205.

### EDU 208 Nutrition, Health and Safety of Children (3)

Examines nutrition, health and safety factors affecting children from birth through adolescence. Topics include dietary requirements and nutrition education, health assessment, childhood illnesses and immunizations, first aid, accident prevention

and child abuse recognition and intervention. Students may not receive credit for both EDU 208 and CDC 208.

### EDU 212

#### Foundations of Education in a Diverse Society (3)

**Prerequisites:** ENG 101 with a grade of C or better and EDU 101 with a grade of C or better (EDU 101 may also be taken as a corequisite).

**Corequisites:** EDU 101 (May be taken as a prerequisite with a grade of C or better).

Examines educational practice from diverse historical, philosophical, sociological, economic and legal perspectives. Emphasis is on educational equity, sociocultural influences on teaching and learning, and how teachers and schools can contribute to interpersonal and intercultural understanding and respect, social justice and democratic citizenship. Explores the nature of school environments, the fundamental goals of education in the American public school, English Language Learners, the relationship between school and diverse society, the organization of school curricula, and characteristics of effective schools and instruction in grades P-12. In addition, students will complete 3 hours of observations in P-12 classrooms in the community, during regular P-12 school day hours. Must be 18 years old to take this course due to background check requirements.

### EDU 217

#### Educating Young Children with Special Needs (3)

**Prerequisites:** CDC 112 or EDU 240

Introduction of educational theories, policies, programs and practices related to the development of children with special needs from birth through age eight. Emphasis on planning and adapting lessons, intervention strategies, curriculum, adjustment problems and classroom management of exceptional children. Examines the impact of disabilities on individuals, families, schools and communities. Includes a 3-hour observation component. EDU 207 and CDC 217.

### EDU 222 Educational Technology (3)

**Prerequisites:** ENG 101 and EDU 212 with a grade of C or better or instructor permission.

Learn how to integrate instructional technology into P-12 classrooms, through a variety of software programs, presentation technology,

telecommunication tools, and assistive technology. Focus will also be on social, ethical, legal, and human issues surrounding the use of technology. In addition, students will complete 5 hours of observation in K-12 classrooms in the community, during regular K-12 school day hours.

### EDU 225 Literature for Children (3)

**Prerequisites:** EDU 212 or department permission.

Study of children's literature from preschool to eighth grade, with best forms of literature for children and to develop standards of judgment in selection of reading materials for children. Recommended for elementary education majors. Students will complete 8 hours of observations/presentations in K-12 classrooms in the community, during regular K-12 school day hours. Must be 18 years old to take this course due to background check requirements.

### EDU 240 Educational Psychology (3)

**Prerequisites:** PSY 101 with a grade of C or better.

Relation of psychological principles to teaching, learning, and assessment, and the educational practice in P-12 classrooms. Focusing 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 will also be introduced.

### EDU 242 Art for Children (3)

**Prerequisites:** ENG 101 with a grade of C or better.

This course is designed to introduce students to various art, media, and methods most appropriate for integration into early childhood, elementary and middle school classrooms. Students will develop a variety of projects which promote children's appreciation of art. Additionally students will create lesson plans and project-based learning assignments, for cross-curricular integration of Art into Pre K-8 grade classrooms.

### EDU 244 Physical Education for Elementary Grades (3)

For education majors. Understanding of child's total development with special emphasis on physical motor development. Overview of play, movement activities, teaching

techniques, discipline, and working with individual differences.

### EDU 245 Integrating Movement and the Arts in Elementary Education (3)

**Prerequisites:** EDU 212

Provides methods for pre-service teachers to integrate movement and the arts (physical and kinesthetic activity as well as literary) and fine arts into traditional classroom disciplines (communication arts, math, science and social studies). *Offered in Fall and Spring.*

### EDU 246 Music for Children (3)

**Prerequisites:** EDU 101 or department permission.

This course is to provide education students an introduction to the methods used to teach music through singing, playing simple instruments, and understanding rhythmic response to music. Coursework emphasizes the creative nature of music with introductions to musical materials which are functional and appropriate in a general classroom setting at the elementary level. Students will also observe music classrooms as well as write lesson plans for elementary classrooms. This course is designed for education majors with no previous musical training.

### EDU 247 Multicultural Education (3)

**Prerequisites:** ENG 101

Examines the multicultural context of education and prepare students to understand and teach learners from diverse backgrounds, with diverse characteristics, and with differing social identities. The course will address issues of educational equity, sociocultural influences on teaching and learning, and how teachers and schools can contribute to interpersonal and intercultural understanding and respect, social justice, and democratic citizenship. *Offered in Fall and Spring.*

### EDU 250 Education of Exceptional Learners (3)

**Prerequisites:** EDU 240 and EDU 212 with a grade of C or better in both courses.

Introduction to exceptional learners and their education in grades PK-12. Knowledge, skills and dispositions that will enable students to work effectively with exceptional learners in general education or special education will

be covered. Students will complete 20 hours of observations in K-12 classrooms in the community, during regular K-12 school day hours.

### EDU 252 Autism Spectrum Disorders (3)

**Prerequisites:** EDU 212 or department permission.

**Corequisites:** EDU 250

Focuses on a broad overview of autism spectrum disorders with particular emphasis on characteristics, definition, educational aspects and contemporary issues in the field of special education. It is designed to provide students with a firm grounding in the foundations of teaching persons with autism, methods to enhance classroom functioning and skill acquisition and expose them to recent developments in the field. Special emphasis will be given to selecting evidence-based practices and enhancing collaboration among individuals with ASD, their families and supporting professionals.

### EDU 255 Social Communication and Sensory Integration (3)

**Prerequisites:** EDU 212 & EDU 250 or department permission.

Provides students with an overview of the components of communication and issues and strategies to increase an individual's communication abilities, with emphasis on visual aspects of language. Sensory systems, sensory processing and sensory motor development and the implications of sensory processing when working with students with autism spectrum disorders. It will include emphasis on strategies for team building, planning, data-based decision making and evaluation.

### EDU 280 Practicum for Paraprofessionals (2)

**Prerequisites:** EDU 212, EDU 222, EDU 240, EDU 250 & EDU 252

**Corequisites:** EDU 285

Culminating course for the A.A.S. for Paraprofessional degree. This course has been designed to acquaint students with the day-to-day realities of classroom life and expose them to various professional and instructional issues in order to provide a realistic understanding of being a Paraprofessional. Students will complete 45 practicum hours in PK-12 classrooms, in the community. Investigation and discussion will relate to the profession.

Students must be available to participate in local PK-12 classrooms during the regular school day. *Offered in Fall and Spring.*

### EDU 285 Teaching Profession With Field Experience (3)

**Prerequisites:** ENG 101 & EDU 212, EDU 222 and EDU 240 with a grade of C or better in the EDU courses.

This course includes an introductory, minimum 30 hours of school field experience in accredited P-12 classroom(s) that provide opportunities to observe and contribute to teaching and learning. Allows preservice teachers to connect firsthand school experience with an emerging professional knowledge base. Develops professional knowledge of diverse educational settings through observation, instruction, experience and reflection. Assists students in determining if a career in teaching is an appropriate goal. Requirements for teacher preparation and certification are reviewed. \* It is recommended that you have substitute certification prior to taking this class. *Offered in Fall and Spring.*

### EDU 286 Education Practicum (4)

**Prerequisites:** ENG 101, EDU 212, EDU 222 & EDU 240 with a grade of C or better in the EDU courses.

**Corequisites:** EDU 285

This course requires clinical experiences in PK-12 public schools. This course will acquaint students with the day-to-day realities of classroom life and expose them to various professional and instructional issues, in order to provide a realistic understanding of the teaching profession. Special emphasis on aligning instructional processes and content knowledge.

The instructor will observe and evaluate students during the practicum experience in local PK-12 public school classrooms. The performance evaluation aligns with the Missouri Educator Evaluation System standards (MEES).

This class must be taken concurrently with EDU 285.

### EDU 290 Portfolio Assessment in Education (1)

**Prerequisites:** EDU 212, EDU 222, EDU 240, EDU 285 & EDU 286 with grade of C or better and successful passage of all sections of the MoGEA State Exam indicated by the required cut score in each area, or if passage

did not occur, the approved substitution of an ACT score of 20 or higher.

**Corequisites:** EDU 285 & EDU 286 may be taken as a corequisite if approved rather than as a prerequisite.

Compilation by pre-service teacher's portfolio of artifacts, observations, descriptions, and reflections upon their studies in professional education as required by the Missouri Department of Elementary and Secondary Education mid-preparation benchmarks of the Teacher Candidate/MIPEC standards. Portfolios will be retained by the Education program as assessment evidence for accrediting bodies.

## ELECTRONICS - ETC

### ETC 101 Fundamentals of Electronics (3)

Introductory course in electricity and electronics. Topics include a study of resistors, Ohm's law, series and parallel circuits, voltage and current dividers, DC meters, Kirchoff's laws, conductors and insulators, and capacitors. Emphasis is on direct current circuitry and troubleshooting. Course includes lecture material and laboratory practice. A basic understanding of algebra is necessary.

### ETC 125 Introduction to Digital Systems (3)

This course provides the student with a basic understanding of digital systems through the use of programmable logic controllers. The student will explore fundamental properties of digital logic controllers, digital control components and systems. Students also will analyze and develop basic control systems solutions, using logic controller simulation software to configure and test systems.

### ETC 210 Industrial Electricity (3)

This course covers fundamental DC and AC electricity concepts as applied to industrial control systems. Electrical quantities, measurements and circuit characteristics/configurations will be introduced. DC, Single Phase and 3 Phase AC will be addressed along with transformers and inductance as related to motor control applications.

### ETC 230 Electric Utility Fundamentals - Energy, Regulation, and Influences (3)

This course provides the student with an overview of the energy utility industry and its occupational opportunities. This includes

the history of providing reliable energy service, regulatory influences, and electric/gas energy flow. The course will also cover basic terminology, typical conditions for employment, and career opportunities. Current technology for energy generation, transmission and distribution will be discussed and demonstrated. This course will integrate an overall understanding of the energy utility industry, its functions, business issues, and procedures and practices.

### ETC 240 Renewable Energy (3)

This course will introduce renewable energy resources and their applied technologies to the student. Students will learn the physics of energy, as well as the geology of energy. Topics covered will include solar, geothermal, tidal wave, as well as hydro-electric energy.

## ENGINEERING - EGR

### EGR 100 Introduction to Engineering (1)

Introduction to the profession of engineering within the scope of overall technical occupations. Course includes resources for major exploration (incorporating regional professional societies, guest seminars, and university transfer information). Emphasis is placed on emerging trends in field practice (globalization, computerization, nanotechnology, renewable energy, bio engineering, and contract engineering). Content focuses on distinguishing aspects of practice (advanced math/science application, planning, analysis, communication) critical to the profession. *Offered in Fall and Spring.*

### EGR 104 Engineering Design (3)

**Prerequisites:** MAT 121 or higher with a passing grade.

Introduction to technical project management involving team activities with project planning, physical design with CAD, data analysis, and communication. Planning topics covered include project scoping, scheduling, budgeting, decision analysis, and risk reduction. Data analysis includes basic charting/ statistics, data interpretation, and measurement science. Communication learning involves novel methods for effectiveness both with technical and non-technical audiences. A team project is involved necessitating significant team member interaction outside of class. AutoCAD, Excel, Word, and PowerPoint are learned and utilized. *Offered in Fall and Spring.*



### EGR 170 Engineering Mechanics I - Statics (3)

**Prerequisites:** MAT 230 & PHY 250

**Corequisites:** MAT 240

Application of principles of mechanics to engineering problems of equilibrium. Includes resultants, equilibrium, friction, trusses, center of gravity and moment of inertia. *Offered in Fall and Spring.*

### EGR 210 Engineering Mechanics II - Dynamics (3)

**Prerequisites:** EGR 170

Application of 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. *Offered in Fall and Spring.*

### EGR 220 Electrical Circuits (3)

**Prerequisites:** MAT 230

Application of advanced mathematics (calculus and differential equations) to the understanding of circuits and circuit elements. Topics include network components and properties, node voltages and mesh currents, signal models, first order circuits, and second order circuits. The final exam will be administered via the Missouri University of Science and Technology. *Offered in Fall and Spring.*

### EGR 221 Electrical Circuits I Laboratory (1)

**Prerequisites:** MAT 230

**Corequisites:** EGR 220

Laboratory to accompany Electrical Circuits I. *Offered in Fall and Spring.*

### EGR 296 Engineering Internship (3)

**Prerequisites:** EGR 100 with a passing grade.

Participatory position placement in a local engineering firm. May require specialized training. Requires reflective paper on the experience. 12 credits in A.S. Pre-Engineering Program is required.

## ENGLISH - ENG

### ENG 095 Developmental Writing I (3)

**Prerequisites:** Writing Placement Score 1-2 and placement into RDG 092 or higher.

Remediates basic writing weaknesses such as basic grammar and sentence structure. Focus on construction of developed paragraphs. Course is ungraded and may be repeated. This course does not count toward graduation.

### ENG 096 Developmental Writing II (3)

**Prerequisites:** Placement into ENG 096 or ENG 095 with a Pass grade.

**Corequisites:** ENG 101 & RDG 093 (students with a high school GPA of 2.6 or higher may have RDG 093 waived).

Pre-college-level writing class focusing on basic writing skills. Includes review of sentence structure, grammar, punctuation, and paragraph structure. May require assignments in ACE Center. Course does not count toward most degrees. Some sections offered as ESL friendly, i.e. taught by instructor trained to work with students for whom English is not primary language. Course grade on pass (P), repeat (R), or fail (F) basis. This course does not count toward graduation.

### ENG 101 English Composition I (3)

**Prerequisites:** One of the following: Placement into ENG 101 or ENG 096 with a Pass grade or ESL 109 and ESL 106 with a grade of C or better (Student may be able to assess out of ESL 106.)

College-level writing course required for all other college-level writing classes. Emphasizes essay structure, ways of organizing information, and use of sources. Basic research skills and critical thinking skills as integral part of course.

### ENG 102 English Composition II (3)

**Prerequisites:** ENG 101 with a grade of C or better or placement into ENG 102.

Advanced college-level writing course emphasizing analysis and in-depth research. Critical reading and thinking skills as well as library skills are integral part of course.

### ENG 115 Technical Writing (3)

**Prerequisites:** ENG 101 with a grade of C or better.

Required course for some technical programs. Writing skills applied to technical reports and summaries. Emphasizes special language, information, and audience demands of technical subjects and audiences. *Offered in Fall and Spring.*

### ENG 125 Business Writing (3)

**Prerequisites:** ENG 101 with a grade of C or better.

Required course for some business majors. Writing skills applied to various types of business communications including business correspondence. Emphasis on demands of special audiences and types of communications. *Offered in Fall and Spring.*

### ENG 200 Book Writing Workshop (3)

Student should have excellent writing skills and be proficient in the English language. Skills and methods required to professionally write a fiction or nonfiction book. Students will complete the framework and a minimum of three chapters for possible submission to a publisher. *Contact department chair for course availability.*

### ENG 201 Introduction to Creative Writing (3)

Exploration of various forms and processes of creative writing.

### ENG 202 Creative Writing II (3)

**Prerequisites:** ENG 201

An extension of ENG 201, with emphasis placed on advanced techniques for writing poetry, fiction, nonfiction and drama. Student work will undergo regular workshoping, and significant attention will be paid to learning about the world of publishing literary journals, both through the lens of potential submitters and as editors of a magazine. *Offered in Fall and Spring.*

### ENG 203 Publishing Workshop (3)

Introduces students to the processes and procedures of book publishing from the industry side of the fence, from writing a call for submissions and a press mission statement to selecting and printing chosen manuscripts. *Offered in Spring only.*

**ENG 206 Fiction Writing (3)**

Advanced creative writing with emphasis on guided editing and revision of narrative forms including essay, fiction, and creative non-fiction. *Offered in Fall and Spring.*

**ENG 207 Poetry Writing (3)**

Advanced poetry writing with emphasis on open discussion of student work and individualized critique by instructor and peers. *Offered in Fall and Spring.*

**ENG 208 Writing for Stage and Screen (3)**

Advanced drama and screenplay writing with emphasis on open discussion of student work and individualized critique by instructor and peers. Additional emphasis on formatting and industry expectations. *Offered in Fall and Spring.*

**ENG 209 Writing Creative Nonfiction (3)**

Advanced writing of various forms of creative nonfiction, including but not limited to memoir, autobiography, travel writing, lyric and meditative essay, and others, with emphasis on open discussion of student work and individualized critique by instructor and peers. *Offered in Spring only.*

**ENG 210 Writing Science Fiction, Fantasy, and Surrealism (3)**

An examination of the technique and craft of writing fiction through the specific lens of writing science fiction, fantasy and surrealism, three of the most popular genres in American writing. Includes genre trends as the back drop for developing their abilities as writers of short fiction. *Offered in Spring only.*

**ENG 249 Editing the Literary Publication (1)**

By serving as assistant readers for a literary journal, students will learn the industry practices and standards of literary publishing by reading and evaluating work submitted by writers and assisting in design and production. Note: Completion of ENG 201 recommended. *Contact department chair for course availability.*

**ENG 250 Advanced Creative Writing Workshop (3)**

**Prerequisites:** ENG 206 or ENG 207 or ENG 208 or ENG 209 or ENG 210 or instructor permission.

An advanced creative writing workshop for students who have completed either Fiction Writing, Poetry Writing, Writing for Stage and Screen, or Writing Creative Nonfiction, in which students will further hone their skills and polish their work in a workshop setting. Instructor and class-wide feedback will be the primary form of response. *Contact department chair for course availability.*

**ENG 280 Linguistics: The Science of Words (3)**

**Prerequisites:** ENG 101

Introduction to linguistics, the study of how language forms and changes. Includes phonetics, phonology, morphology, syntax, and semantics, along with language acquisition and development, and pragmatics. *Contact department chair for course availability.*

**ENG 298 Creative Writing Portfolio (1)**

**Prerequisites:** ENG 201 and instructor permission.

As a culmination of creative writing studies, students will work one-on-one with the instructor to create a portfolio of polished manuscripts. Required materials will be determined by the instructor. *Offered in Fall and Spring.*

**ENG 299 Topics in Creative Writing (3)**

Special topics writing class. Topics vary semester to semester. *Contact department chair for course availability.*

**ENGLISH AS A SECOND LANGUAGE - ESL****ESL 100 SCC Success and Skills for Non-Native Speakers (3)**

**Corequisites:** Placement into ESL 104(RDG 104), ESL 107 or equivalent skill level, ESL 199 (unless a student has previously attended a semester at a U.S. college and has taken an equivalent course or the student has been a resident for more than two years).

Advanced instruction for non-native speaking students regarding key strategies and skills needed to be successful in an American college, including listening, speaking, note taking, test taking, time management and basic written communication. Student must take the Compass ESL test.

**ESL 103 Pronunciation, Communication, and Listening for Non-Native Speakers (4)**

**Prerequisites:** INE 101, INE 102, INE 199 or placement by ESL chair.

**Corequisites:** ESL 100, ESL 104 & ESL 107

Instruction in pronunciation for non-native speakers. By learning the American style of intonation, rhythm/speech production and syllable stress, students will be better understood and more articulate and expressive. Small group and individual communication activities will focus on speaking and listening. Open to non-native speakers of an intermediate level or above. Student must take the ESL Placement assessment.

**ESL 104 College Reading for Non-Native Speakers (4)**

**Prerequisites:** INE 101, INE 102 & INE 199 or placement by ESL chair.

**Corequisites:** ESL 100, ESL 103 & ESL 107

Directed practice in college reading skills emphasizing vocabulary, comprehension, critical thinking, reading efficiency and reading across the curriculum for non-native speaking students. This course will provide students with instruction in reading techniques and vocabulary enhancement. Students need to be present in class to practice skills, work on vocabulary, read, and participate in discussions about the readings. This course will enhance the academic skills of students, as well as provide skills that allow them to comprehend and analyze what is read. In addition, lessons will focus on vocabulary acquisition and application. Attendance and participation in class is essential for success in this course. Student must take the ESL Assessment/Placement test. Student may not receive credit for both RDG 104 and ESL 104.

**ESL 105 Advanced Conversation and Speaking Skills for Non-Native Speakers (3)**

**Prerequisites:** ESL 103/COM 100 or equivalent skill level and ESL 104 with a grade of C or better or placement by ESL chair after taking the placement test.

**Corequisites:** ESL 106 & ESL 108

Instruction in verbal and nonverbal communication with small group and public speaking and up to four graded oral presentations. Students will build speaking

and listening skills for non-native speakers who have had some fluency instruction in speaking English, but need guided practice in conversation, making presentations and listening in a variety of situations. Other topics to be discussed include self-concept, others' perceptions, and the importance of being able to communicate in a variety of situations. Includes readings, communication, films and conversation about international and multicultural issues. Student must take the ESL placement test. (This course is equivalent to COM 101))

### ESL 106 Advanced College Reading for Non-Native Speakers (3)

**Prerequisites:** ESL 103, ESL 104 (RDG 104) & ESL 100 with a grade of C or better and Culture Institute after taking the ESL placement test.

**Corequisites:** ESL 105 & ESL 108

Directed practice in advanced college reading skills emphasizing discipline-specific vocabulary, advanced comprehension, higher level critical thinking skills, improved reading efficiency and reading across the curriculum for second-language students. Student must take the ESL Placement test. Student may not receive credit for both RDG 106 and ESL 106.

### ESL 107 Intensive Grammar Review for Non-Native Speakers (4)

**Prerequisites:** INE 101, INE 102 & INE 199 or placement by ESL chair.

**Corequisites:** ESL 100, ESL 103 & ESL 104

College-level review of written and spoken grammar, usage and vocabulary for ESL students, emphasizing target grammar concepts, sentences and paragraph structure, vocabulary, idioms and reading skills. Student must take the ESL placement test.

### ESL 108 Intermediate Composition for Non-Native Speakers (3)

**Prerequisites:** ESL 107 and ESL 104 (RDG 104) or equivalent with a grade of C or better or placement by the English Language and Culture Institute after taking the ESL placement test.

**Corequisites:** ESL 100, ESL 105, ESL 106, & ESL 115D

Advanced instruction for non-native speaking students in developing college-level writing skills in English. Students will work on essential

composition skills, including sentence, paragraph and essay skills, as well as advanced grammar skills. Students will also be required to read, discuss and analyze short essays and selections as the foundation of discussion and writing.

### ESL 109 Research Writing for Non-Native Speakers (3)

**Prerequisites:** ESL 105, ESL 106 & ESL 108 with a grade of C or better (ESL 105 can be waived with department approval).

Students will build skills in composition with a focus in skills necessary for writing research papers: familiarity with using the library, online databases, integrating research into essays, MLA form, while advancing reading skills, grammar, and sentence structure. Reading and writing assignments will be enhanced with classroom discussion, peer editing, and conferencing.

### ESL 112 Academic Vocabulary Across the Disciplines (1)

**Prerequisites:** INE 101, INE 102, INE 199 & ESL 100 or placement into ESL classes.

**Corequisites:** RDG 111 (recommended but not required)

Improve academic vocabulary beyond what is commonly taught in ESL 100. Explore the meaning, pronunciation, collocation and usage of number words in course areas that may be taken as part of general education classes, including science, psychology, math, literature, etc. as well as chosen majors.

### ESL 113 Advanced Vocabulary for Special Purposes (for Non-Native Speakers) (1)

**Prerequisites:** INE 101, INE 102, INE 199 or placement in ESL classes.

**Corequisites:** ESL 106, ESL 108 & ESL 109 (recommended but not required)

Concentration on teaching students vocabulary for one interest or career area, they will delve deeply into the usage, connotations, meanings, spelling and context of specialized words, slang or jargon. Online learning will be included. Recommended to be taken with ESL 299.

### ESL 115A ESL Community as Classroom Lab B (Second Level) (.5-1)

**Prerequisites:** Placement by Chair.

**Corequisites:** Corequisite to all classes that

begin with ESL/INE/ECI prefixes or are cross-listed with classes that have ESL prefixes. Once enrolled in ESL, the students should be automatically put in the correct level of ESL 115 labs.

The course corresponds to the students' appropriate level of English skills, growing progressively more challenging and advanced at each level. Includes writing and conversation labs. Features field trips, opportunities for campus interaction, tutoring, guest speakers, independent work in the community, and practice on ESL computer learning platforms. Students may choose opportunities best tailored to their needs and schedules. Students who take this course for credit may have extra required workshops/labs.

This course is aimed at students with high beginning level English skills, in general INE Level 2.

### ESL Community as a Classroom Lab (0-1)

**Corequisites:** Corequisite to all classes that begin with ESL/INE/ECI prefixes or are cross-listed with classes that have ESL prefixes. Once enrolled in ESL, the students should be automatically put in this zero credit course. Students may opt to take it for one credit repeatedly with chair permission.

Includes writing and conversation labs that provide extra practice with difficult classroom concepts, from grammar and vocabulary to fluency and conversation. Features field trips, opportunities for campus interaction, tutoring, guest speakers, independent work in the community, and practice on ESL computer learning platforms. Although some workshops/labs may be required, students may choose opportunities best tailored to their needs and schedules. Students who take this course for credit may have extra required workshops/labs.

### ESL 115A ESL Community as Classroom Lab A (First Level) (.5-1)

**Prerequisites:** Placement by Chair

**Corequisites:** Corequisite to all classes that begin with ESL/INE/ECI prefixes or are cross-listed with classes that have ESL prefixes. Once enrolled in ESL, the students should be automatically put in the correct level of ESL 115 labs.

The course corresponds to the students' appropriate level of English skills, growing progressively more challenging and advanced at each level. Includes writing and conversation labs. Features field trips, opportunities for

campus interaction, tutoring, guest speakers, independent work in the community, and practice on ESL computer learning platforms. Students may choose opportunities best tailored to their needs and schedules. Students who take this course for credit may have extra required workshops/labs.

This course is aimed at students with beginning level English skills, in general INE Level 1.

### ESL 115C ESL Community as a Classroom Lab C (Third Level) (.5-1)

**Prerequisites:** Placement by Chair

**Corequisites:** Corequisite to all classes that begin with ESL/INE/ECI prefixes or are cross-listed with classes that have ESL prefixes. Once enrolled in ESL, the students should be automatically put in the correct level of ESL 115 labs.

The course corresponds to the students' appropriate level of English skills, growing progressively more challenging and advanced at each level. Includes writing and conversation labs. Features field trips, opportunities for campus interaction, tutoring, guest speakers, independent work in the community, and practice on ESL computer learning platforms. Students may choose opportunities best tailored to their needs and schedules. Students who take this course for credit may have extra required workshops/labs.

This course is aimed at students with low to middle intermediate English skills, in general ESL Level 1.

### ESL 115D ESL Community as a Classroom Lab D (Third Level) (.5-1)

**Prerequisites:** Placement by Chair

**Corequisites:** Corequisite to all classes that begin with ESL/INE/ECI prefixes or are cross-listed with classes that have ESL prefixes. Once enrolled in ESL, the students should be automatically put in the correct level of ESL 115 labs.

The course corresponds to the students' appropriate level of English skills, growing progressively more challenging and advanced at each level. Includes writing and conversation labs. Features field trips, opportunities for campus interaction, tutoring, guest speakers, independent work in the community, and practice on ESL computer learning platforms. Students may choose opportunities best tailored to their needs and schedules. Students who take this course for credit may have extra required workshops/labs.

This course is aimed at students with upper intermediate to low advanced English skills, in general ESL Level 2.

### ESL 115E ESL Community as Classroom Lab E (Fifth Level) (.5-1)

**Prerequisites:** Placement by Chair

**Corequisites:** Corequisite to all classes that begin with ESL/INE/ECI prefixes or are cross-listed with classes that have ESL prefixes. Once enrolled in ESL, the students should be automatically put in the correct level of ESL 115 labs.

The course corresponds to the students' appropriate level of English skills, growing progressively more challenging and advanced at each level. Includes writing and conversation labs. Features field trips, opportunities for campus interaction, tutoring, guest speakers, independent work in the community, and practice on ESL computer learning platforms. Students may choose opportunities best tailored to their needs and schedules. Students who take this course for credit may have extra required workshops/labs.

This course is aimed at students with advanced/ mastery English skills, in general ESL Level 3.

(as depicted on the English Language and Culture Institute webpage)

### ESL 115E ESL Community as Classroom Lab X (Special Topics) (.5-1)

**Prerequisites:** Placement by Chair

**Corequisites:** Corequisite to all classes that begin with ESL/INE/ECI prefixes or are cross-listed with classes that have ESL prefixes. Once enrolled in ESL, the students should be automatically put in the correct level of ESL 115 labs.

The course corresponds to the students' appropriate level of English skills, growing progressively more challenging and advanced at each level. Includes writing and conversation labs. Features field trips, opportunities for campus interaction, tutoring, guest speakers, independent work in the community, and practice on ESL computer learning platforms. Students may choose opportunities best tailored to their needs and schedules. Students who take this course for credit may have extra required workshops/labs.

### ESL 116 ESL Conversation and Current Events (1)

**Prerequisites:** INE 101, INE 102, INE 199, placement above INE level or department permission.

Conversation development based on current events, cultural issues and academic concerns. Vocabulary, spoken grammar skills and listening comprehension, will be emphasized. *Offered in Spring only.*

### ESL 120 Success in Health Care Careers for Non-Native Speakers (3)

**Prerequisites:** ESL 105 or equivalent skill level (department/instructor permission) and ESL 106 with a grade of C or better.

**Corequisites:** ESL 108

For non-native speakers entering health care programs in American colleges. Includes communicating in health care facilities, reading health care textbooks, medical records, and professional literature, learning in labs and clinicals, medical terminology and culture in American health care.

### ESL 199 Study of U.S. Culture and Community (1)

**Prerequisites:** Students must take the ESL assessments prior to entry unless this course is the only course they will be taking.

**Corequisites:** ESL 100 (corequisite may be waived in some cases)

This course will increase students' awareness of cultural, socio-economic and life style differences between the United States and other countries, as well as provide ample opportunity for non-native speakers to practice speaking, listening, reading and writing. Students will also learn more about the various regions and cultural-ethnic groups in this country. Students will learn new vocabulary and idioms, make an oral presentation, and write a short paper by the finish of the class.

### ESL 299 Academic English for Special Purposes (3)

**Prerequisites:** ESL instructor or department chair permission.

Focuses on practice of all four ESL skills of listening, reading, writing and speaking in a specific area, such as business, culinary skills, etc. Emphasis on application of English skills in mock real-life situations that ESL students may encounter in chosen field. Critical thinking

and cultural differences will also be addressed. May be paired with a vocabulary class that addresses special topics as well. Recommended to be taken with ESL 113.

## ENGLISH LANGUAGE AND CULTURE

ECI 109 Research Writing for Advanced World English or ESOL Speakers (3)

**Prerequisites:** ESL 105, ESL 106, ESL 108 and approval of ENG and ESL chairs.

**Corequisites:** ENG 101 & ESL 115/E

Students will build skills in composition with a focus on skills necessary for writing research papers: familiarity with using the library, online databases, integrating research into essays, (MLA and APA form), while advancing reading skills, grammar, and sentence structure. Reading and writing assignments will be enhanced with classroom discussion, peer editing, and conferencing.

ECI 290 Academic English Immersive Experience (1-4)

**Prerequisites:** Placement by ESL department chair and a grade of C or better in ESL 105, ESL 106 and/or ESL 108.

This course will require both classroom instruction and an immersive experience for advanced ESL, World English, or native speaker students to demonstrate and/or model advanced competency with spoken and written aspects of the English language, including syntax, phonetics, idioms, and structure. In addition, the course will require written and oral reflection, through journals and discussions, on content learned, and the professor must verify the students' attendance and participation in the experiences where the students are placed. This English-intensive experience, a quasi-practicum, could include volunteer opportunities/exchanges here on campus, in the community, or even abroad where World English is practiced extensively. As native speakers or multilingual speakers, in this course they will consciously observe and journal about aspects of the English language on which they may be questioned, including idioms, conversational patterns, intonation, and vocabulary. Furthermore, the course will require them to examine other cultures, gaining cultural competence, as demonstrated in at least one case study analysis. Non-native speakers, who may require more interaction with the professor, must demonstrate the

vocabulary they have learned through this experience. A grade of C is passing, but a "B" or better is required for this experience to count toward the ESL Certificate or the Global Studies Certificate. \*This may be counted in the GS Certificate as an additional Foreign Language or ESL course numbered over 190. In certain cases, the chair may allow this course to be substituted for one of the required courses in the Academic ESL Certificate. Notes: This course could also be offered with a service-learning option or special topics designation.

ECI 299 Special Topics in Academic English (3)

**Prerequisites:** ESL instructor or department chair permission.

Focuses on practice of all four English Language skills of listening, reading, writing and speaking in a specific area, such as business, culinary skills, translation, education, etc. Emphasis on application of English skills in mock real-life situations that students may encounter in chosen field. Critical thinking and cultural differences will also be addressed. May be paired with a vocabulary class that addresses special topics as well. Recommended to be taken with ESL 113, depending on topics.

## FRENCH - FRN

FRN 101 French Language and Culture I (4)

Beginning French course that presents basic language skills of speaking, listening comprehension, reading and writing, with emphasis on effective linguistic functioning in real situations. Includes culture unit on Paris. Opportunity provided for audio-lingual practice outside of class.

FRN 102 French Language and Culture II (4)

**Prerequisites:** FRN 101 or 1 to 1 1/2 years minimum high school language study.

Continuation of French 101, including culture unit on France.

FRN 190 Topics in French Language and Culture (1-3 hrs)

**Prerequisites:** Dependent on topic.

**Corequisites:** Dependent on topic.

Exploration of special topics and/or activities in 100 level French language and culture. Prerequisite and corequisite dependent on topic. *Contact department chair for course availability.*

FRN 195 French Language and Civilization (1-9 hrs)

Involves travel and/or study in Francophone or French culture area. May have prerequisites and may be repeated for credit. Will not satisfy General Education requirements. *Contact department chair for course availability.*

FRN 201 French Language and Culture III (4)

**Prerequisites:** FRN 102 or 1 1/2 to 2 years minimum high school language study. A grade of C or better in the prerequisite course is recommended.

Follow up to French 102. Provides expanded opportunities for listening to, speaking, reading, and writing French. Continues exploration of culture, with emphasis on Francophone world. Emphasis remains on linguistic functioning in real situations. *Offered in Fall and Spring.*

FRN 202 French Conversation and Composition (4)

**Prerequisites:** FRN 201 or 2 years minimum high school language study. A grade of C or better in the prerequisite course is recommended.

Intensive one-semester course focusing on conversational skills, grammar review, and composition. Exploration of role of French in North America. *Offered in Fall and Spring.*

FRN 210 Introduction to French Cinema (3)

**Prerequisites:** FRN 102 with a passing grade.

Study of the history and artistic elements of French cinema through critical examination of directors, themes, and techniques. Lectures in English with films in French with English subtitles. French students must complete selected assignments in French. Student may not receive credit for both FRN 210 and GLC 210. *Contact department chair for course availability.*

FRN 215 Reading in French (3)

**Prerequisites:** FRN 201 or two years minimum high school language study. A grade of C or better in the prerequisite course is recommended.

Reading and discussion of various short selections and at least one complete work in the original French. Reading strategies specific to French language, including vocabulary building, reading for comprehension, and use of literary tenses. *Contact department chair for course availability.*

**FRN 220 French Culture and Civilization (3)**

**Prerequisites:** One of the following must be completed: FRN 201, FRN 202, FRN 215, or three to four years high school language study. A grade of C or better in the prerequisite course is recommended.

Survey of history of French civilization and influence throughout world, with emphasis on culture of present-day France and Quebec. Exercises and activities to practice and improve French language skills. (Taught in French.) *Contact department chair for course availability.*

**FRN 290 Topics in Intermediate French Language and Culture (1-6 hrs)**

Exploration of special topics in 200 level French language and culture. Prerequisite and corequisite dependent on topic. *Contact department chair for course availability.*

**GEOGRAPHY - GEO****GEO 100 Principles of Geography (3)**

Covers the major areas of geographic study, both physical and cultural, and how each is distributed globally. Promotes understanding of a multicultural world and the differing values held by people throughout that world.

**GEO 101 Geography: The Eastern World (3)**

Survey of Asia, Africa, the Middle East, Australia, and Pacific World. Emphasis on topographical, physical, human and cultural factors. *Offered in Spring only.*

**GEO 102 Geography: The Western World (3)**

Survey of the continents of Europe, North America, and South America. Emphasis on topographical, physical, human and cultural factors. *Offered in Spring only.*

**GEO 103 Physical Geography (3)**

Physical Geography is an introduction to the study of the natural environmental systems of earth--the atmosphere, the hydrosphere, the biosphere, and the lithosphere. The course studies the earth's natural systems, covering the characteristics of the Earth's surface and the interaction of processes that produce a world pattern of distinctive environments significant to humanity. Topics include map fundamentals,

the development of land forms, weather, climate, soils, and vegetation.

**GEO 110 Geography for Educators (3)**

**Prerequisites:** Must be a declared Education major and completed or enrolled in EDU 210.

**Corequisites:** EDU 210 (unless previously completed)

Review of National Geography Standards, the DESE Common Core Standards for geographic studies, and the general education assessment review topics for the geographic area of social sciences, broken into three grade levels (fourth, eighth and 12th). Review which geographic concepts should be taught at which age and with what level of complexity. Major geographic areas will be included: maps and mapping techniques; cultural differences; political boundaries; global economic variations; urban design and purpose; population distribution; climate; environmental issues including the relationships between humans and the earth; natural resource distribution; topography; geomorphology; research and presentation methods. *Contact department chair for course availability.*

**GEO 115 Geography of North America (3)**

Survey of physical, topographical, economic, and cultural factors of United States and Canada. *Contact department chair for course availability.*

**GEO 120 Introduction to GIS (Geographic Information Systems) (3)**

Introduction to the concepts and experiences in Geographic Information Systems (GIS). Examines how to manipulate and analyze spatial data with exploration of practical uses of GIS. Includes using GIS technology and software through hands-on exercises and projects to solve real-world problems. Focus on developing skills in the use of visual maps and written communication in GIS. *Offered in Fall and Spring.*

**GEO 220 GIS Internship (1-3 hrs)**

**Prerequisites:** GEO 120 and instructor permission.

Application of geographic technique and information learned in GIS class through work force experience.

**GEO 221 GIS Internship II (1-3 hrs)**

**Prerequisites:** GEO 220 and instructor permission.

Application of advanced geographic techniques and information learned in GIS class through workforce experience.

**GEO 222 GIS Internship III (1-3 hrs)**

**Prerequisites:** GEO 221 and instructor permission.

Application of advanced geographic techniques and information learned in GIS class through workforce experience.

**GEO 225 Advanced GIS (3)**

**Prerequisites:** GEO 120 or instructor permission.

Exploration of increasingly complex geographic concepts using computer and analytical methods to solve spatial problems. Sophisticated GIS technology used to find and explain spatial patterns. ESRI products and GPS technology used to create data and maps. *Contact department chair for course availability.*

**GEO 299 Topics in Geography (3)**

**Prerequisites:** Instructor permission.

Exploration of topic selected by department. Introduction to research techniques and seminar approach as integral part of scholarship. *Contact department chair for course availability.*

**GERMAN - GRM****GRM 101 German Language and Culture I (4)**

Beginning German course that presents basic language skills of speaking, listening comprehension, reading and writing, with emphasis on effective linguistic functioning in real situations. Opportunity provided for audio-lingual practice outside of class. *Offered in Fall only.*

**GRM 102 German Language and Culture II (4)**

**Prerequisites:** GRM 101 or 1 to 1 1/2 years minimum high school language study. A grade of C or better in the prerequisite course is recommended.

Continuation of German 101. *Offered in Spring only.*

### GRM 190 Topics in German Language and Culture (1-3 hrs)

**Prerequisites:** Dependent on topic.

Exploration of special topics and/or activities in German language and culture. *Contact department chair for course availability.*

### GRM 201 German Language and Culture III (4)

**Prerequisites:** GRM 102 or 1 1/2 to 2 years minimum high school language study. A grade of C or better in the prerequisite course is recommended.

Intensive course with emphasis on conversational proficiency. Grammar review and expansion. Variety of literary and cultural readings used for vocabulary building and as basis for classroom discussion. Opportunity provided for audio-lingual practice outside of class. *Offered in Fall only.*

### GRM 202 German Conversation and Composition (4)

**Prerequisites:** GRM 201 or two years minimum high school language study. A grade of C or better in the prerequisite course is recommended.

Continuation and completion of materials presented in German 201. *Offered in Spring only.*

### GRM 215 Reading in German (3)

**Prerequisites:** GRM 201 or two years minimum high school language study. A grade of C or better in the prerequisite course is recommended.

Reading and discussion of short selections and at least one complete work in the original German. Exploration of reading strategies specific to German language, including vocabulary building, reading for comprehension, and the use of literary tenses. *Contact department chair for course availability.*

### GRM 290 Topics in Intermediate German Language and Culture (1-3 hrs)

**Prerequisites:** Dependent on topic.

**Corequisites:** Dependent on topic.

Exploration of special topics in 200 level German language and culture. Prerequisite and corequisite dependent on topic. *Contact department chair for course availability.*

## GLOBAL CULTURE - GLC

### GLC 105 Family History Research Practicum (1)

Research trip to major genealogical collection. Introduction to library research for the family historian, including research organization, trip planning, conducting actual on-site research, and post-trip follow-up and analysis. Emphasis on historical research method, patterns of social and cultural identity, and migration. *Contact department chair for course availability.*

### GLC 133 Cultures of Central America and the Caribbean (1-3 hrs)

Explores cultures of Central America and the Caribbean Basin in the context of a study tour (or study abroad) in one or more locations in that region of the world. Investigates cultural characteristics and values and compares and contrasts the nature of diverse cultures. Explores biases and cultural influences that affect a person's perception of these cultures. *Contact department chair for course availability.*

### GLC 135 Cultures of the Amazon and Andes (1-3 hrs)

Explores the cultures of the upper Amazon and the Andes in the context of study tour to Peru. Investigates questions related to cultural characteristics and values with comparison and contrast of the nature of diverse cultures. Provides opportunities to understand biases and cultural influences that affect perceptions of Amazonian and Andean cultures. Specific course objectives, strategies, and evaluation procedures outlined in a learning agreement with the instructor. *Contact department chair for course availability.*

### GLC 140 Celtic History and Contemporary Culture (1-3 hrs)

Field course with focus on Celtic political and cultural history from prehistoric to modern times. Experiential approach that combines study tours of various Celtic sites with readings, films, writing assignments, and/or other activities. Specific course objectives, strategies, and evaluation procedures defined in individual learning agreement with the instructor.

### GLC 145 The Theatre in London (1)

Immersion trip into the theatre in London, England, through play performances, museum visits, backstage tours, and lectures and

discussions led by experts in theatrical arts and crafts to introduce the best English-speaking theatre in the world.

### GLC 155 Central European History and Cultures (1-3 hrs)

Field course with focus on European political and cultural history. Exploration of history and cultures in context of study tour to Central Europe. Among cultural issues deals with question of what is Europe? Specific course objectives, strategies, and evaluation procedures outlined in a learning agreement with the instructor. *Contact department chair for course availability.*

### GLC 170 African Culture (1-3 hrs)

Field course with a focus on contemporary culture in a specific region of the African continent. Experiential approach that combines study tours of various African sites with readings, films, writing assignments, and other activities. Specific course objectives, strategies, and evaluation procedures outlined in learning agreement with the instructor. *Contact department chair for course availability.*

### GLC 180 Australian Culture (1-3 hrs)

Field course with a focus on contemporary culture in a specific region of the Australian continents. Experiential approach combining study tours of various Australian sites with readings, films, writing assignments, and other activities. Specific course objectives, strategies, and evaluation procedures defined in individual learning agreement with the instructor.

### GLC 190 Introductory Comparative Culture Study (1)

Introductory comparative study between U.S. culture and other cultures around the world through real conversation and interaction with people from around the world. Includes comparative research on an aspect of U.S. culture and another culture around the world, represented by someone in the class. Class will include a service aspect, with native speakers or experienced second language speakers taking on a mentoring role with international students new to the country. Students will articulate their viewpoints about American culture along with their perceptions of international cultures. Class may be taken by American students, students from English-speaking countries, or ESL students whose country's governments require them to take non-ESL prefix classes.

**GLC 210 Introduction to French Cinema (3)**

Study of the history and artistic elements of French cinema through critical examination of directors, themes, and techniques. Lectures in English with films in French with English subtitles. French students must complete selected assignments in French. Student may not receive credit for both GLC 210 and FRN 210. *Contact department chair for course availability.*

**GLC 215 Intercultural Communication (3)**

Explores issues related to intercultural communication process. Considers important role of context (social, cultural, and historical) in intercultural interactions. Topics include stereotyping, prejudice, ethnocentrism, social class and religious identities, folk culture, power, and intercultural conflict.

**GLC 290 Special Topics in Global Culture (3)**

**Prerequisites:** Instructor permission.

Exploration of a humanities-based global topic selected by department. Global events, current or historical information, and geographical knowledge will be included.

**GLOBAL STUDIES - GLS****GLS 151 Introduction to Global Studies (3)**

**Prerequisites:** Suggested prerequisite or corequisite: POL-101, HIS-101 or HIS-102.

**Corequisites:** Suggested prerequisite or corequisite: POL-101, HIS-101 or HIS-102.

Introductory course to develop global awareness and problem-solving skills with special emphasis on the interdependence of international and intercultural communities. Explores the culture of world government systems, including capitalism, in world-historical perspective and their implications for global justice. Integrates social scientific, cultural and philosophical perspectives with a view to cultivating students' global awareness, global perspective and global engagement. Students will engage in discussions and critical thinking activities about international and intercultural relations issues, such as environment, human rights, social justice, communication and differences, arms control, world health, ethnic and religious conflict resolution, human rights, food supply and ethnocentrism. (Some sections may emphasize

particular global or international issues as special topics.)

**GLS 290 Special Topics in Global Studies (3)**

**Prerequisites:** Instructor permission.

Exploration of a non-humanities-based global topic selected by department. Global events, current or historical information, and geographical knowledge will be included. *Contact department chair for course availability.*

**HEALTH INFORMATION MANAGEMENT - HIM****HIM 110 Medical Terminology (3)**

Introduction to medical terminology focusing on building anatomical and pathophysiologic terms through identification and interpretation of Latin and Greek roots, prefixes, and suffixes. Pronunciation, spelling, and transcribing basic terms relating to body systems, medical specialties, and common diseases.

**HIM 120 Health Care Data (3)**

**Prerequisites:** Acceptance into the HIM Program and CPT/BTC 103 and ENG 101.

**Corequisites:** HIM 121

Introduction to health information management including health care delivery systems; health information management profession; health care data, collection, quality, access and retention. *Offered in Fall only.*

**HIM 121 Health Care Data Laboratory (0)**

**Corequisites:** HIM 120

Case studies, projects and hands on activities to reinforce concepts from HIM 120. *Offered in Fall only.*

**HIM 125 Health Care Technologies (3)**

**Prerequisites:** HIM 120 and HIM 121

**Corequisites:** HIM 126

Continuation of HIM 120 with emphasis on indexes and registries, computer-based patient record, and health information systems. *Offered in Spring only.*

**HIM 126 Health Care Technology Laboratory (0)**

**Prerequisites:** HIM 120 and HIM 121

**Corequisites:** HIM 125

Special projects, guest speakers, and field trips to reinforce principles taught in Health Care Technologies lecture. *Offered in Spring only.*

**HIM 140 Anatomy & Physiology for Allied Health (3)**

**Prerequisites:** High School Biology or BIO 095 with a Pass grade; Acceptance into HIM and/or MDA Programs Required.

**Corequisites:** HIM 110-Medical Terminology must be completed prior to or taken at the same time as HIM-140

Foundation for the normal structure and function of human anatomy systems, focusing on relationships between systems for students in allied health programs. Fundamentals include anatomical and physiological terminology and homeostatic mechanisms. Note: Only for HIM & MDA students.

**HIM 141 Pathophysiology for Allied Health (3)**

**Prerequisites:** HIM 110 (recommended but not required)

Study of pathology and general health management of diseases, conditions and injuries by body systems across the life span. Included: etiology, symptoms, signs, diagnosis, treatment, prognosis and outcomes of diseases, conditions and injuries. Course is not transferable. Students planning on continuing to a four-year university should take BIO 265. *Offered in Spring only.*

**HIM 220 ICD Coding (3)**

**Prerequisites:** HIM 140

**Corequisites:** HIM 221 and HIM 141

Study of classification systems with major emphasis on inpatient coding using ICD-10-CM, ICD 10 PCS and reimbursement methodologies, specifically DRGs. *Offered in Fall only.*

**HIM 221 ICD Coding Laboratory (0)**

**Prerequisites:** HIM 140

**Corequisites:** HIM 220 and HIM 141

Special projects to reinforce principles taught in ICD Coding lecture. *Offered in Fall only.*



**HIM 238 Healthcare Legal & Ethical Issues (3)**

A history of ethics with a focus on legal and ethical issues in the health care field including procedures involved in court disclosure of medical records, laws pertaining to release of information from medical records, and medical record requirements for accrediting, approving, licensing and certifying agencies. Learn laws and regulations governing preparation and use of medical records, ethical practice standards, fraud and abuse, and other medical ethical/legal issues.

**HIM 251 Medical Billing/Coding Clinical (2)**

**Prerequisites:** This course must be taken in the final semester of the HIM program and with HIM Director approval.

Supervised learning experience in a health care facility and/or virtual lab setting enabling the student to apply skills in basic billing and coding procedures and practices. Emphasis is on students achieving entry-level proficiency in billing and coding medical records and physicians office diagnoses and procedures, and the application of policies, standards and guidelines. *Offered in Fall and Summer.*

**HIM 252 Certified Coding Associate (CCA) Exam Review (2)**

**Prerequisites:** This course must be taken in the final semester of the HIM program and with HIM Director approval.

Review of the coding competencies and skills in preparation of a coding certification exam. *Offered in Fall and Summer.*

**HIM 270 CPT Coding (3)**

**Prerequisites:** HIM 140

**Corequisites:** HIM 141 and HIM 271

Outpatient coding guidelines and reimbursement with major emphasis on CPT coding. *Offered in Spring only.*

**HIM 271 CPT Coding Laboratory (3)**

**Prerequisites:** HIM 140

**Corequisites:** HIM 141 and HIM 270

Application of outpatient coding guidelines and reimbursement with major emphasis on CPT coding, to reinforce principles taught in lecture component, HIM 270. *Offered in Spring only.*

**HIM 280 Healthcare Billing and Reimbursement Issues (2)**

**Prerequisites:** HIM 120, HIM 121, HIM 125 and HIM 126

*Healthcare billing and reimbursement issues will be covered. Included: payor categories, APCs and other prospective payment systems, the revenue cycle, chargemaster, RBRVS, regulatory guidelines, billing processes, etc. Offered in Spring only.*

**HISTORY - HIS****HIS 101****U.S. History to 1877 (3)**

Survey of historical, cultural, political, economic, and institutional forces and events that shaped United States history through period of Reconstruction. HIS 101 complies with provisions of Section 170.011 RsMo.

**HIS 102 U.S. History Since 1877 (3)**

Survey of the historical, cultural, political, economic, and institutional forces and events that shaped United States history from 1877 to present. HIS 102 complies with provisions of Section 170.011 RsMo.

**HIS 103 African-American History to 1877 (3)**

A survey of African American History from African and colonial origins to the Civil War and Reconstruction. Examines U.S. history from the perspective of African Americans, highlighting black leadership, contributions to U.S. society and culture, and places the African-American narrative in context of the larger U.S. history. *Offered in Fall only.*

**HIS 104 African-American History Since 1877 (3)**

A survey of African-American history from the Civil War and Reconstruction to the present. Examines U.S. history from the perspective of African Americans, highlighting black leadership, contributions to U.S. society and culture, and places the African-American narrative in context of the larger U.S. history. *Offered in Spring only.*

**HIS 105 Family History Research Practicum (1)**

Research trip to major genealogical collection. Introduction to library research for the family historian, including research organization, trip planning, conducting actual on-site research,

and post-trip follow-up and analysis. Emphasis on historical research method, patterns of social and cultural identity, and migration. *Contact department chair for course availability.*

**HIS 115 U.S. History Since 1945 (3)**

Survey of United States from end of WWII to present. Special attention placed on historical, political, social, and cultural forces that have influenced the nation. Covers constitutional and judicial changes since 1945. HIS 115 complies with provisions of Section 170.011 RsMo.

**HIS 145 Western Civilization: Ancient and Medieval Heritage (3)**

Introduction to ancient civilizations of Eastern Mediterranean, classical civilizations of Greece, Rome, and Western European society up to the Renaissance.

**HIS 146 Western Civilization: Modern European Heritage (3)**

Beginning with Renaissance, survey of history of Western civilization through post-WWII period.

**HIS 160 Native American History (3)**

Introduction and survey of Native American History from prehistoric to the present. Attention placed on tribal histories and their social and political relationships with various European powers and the United States. *Contact department chair for course availability.*

**HIS 204 Non-Western Civilization to 1500 (3)**

Introductory-level survey of the Middle East, India, China and the Pacific Rim from their beginnings to 1500 C.E.

**HIS 205 Non-Western Civilization Since 1500 (3)**

Introductory-level survey of the Middle East, India, China and the Pacific Rim from 1500 C.E to the present.

**HIS 210 History of Latin America (3)**

Survey of the political, economic and cultural forces and events that have shaped the history of Central and South America: emphasis will be placed on Mexico, Brazil, Argentina and Chile.

**HIS 230 Film as History (3)**

Selected historical topics discussed against how film has presented them for general audiences. View at least six feature films representing historical issues and through required readings, presentations, and discussions, evaluate and critique the fact or fiction. *Contact department chair for course availability.*

**HIS 240 Europe Since 1914 (3)**

Beginning with events leading up to WWI, survey of political, economic, and social history of Europe. Special attention given to Russian Revolution, Soviet State, Nazi Germany and collapse of the Soviet Empire in the 1990s. *Contact department chair for course availability.*

**HIS 270 History of Missouri (3)**

Emphasis on events in Missouri as a way to understand the development of America. Covers national trends and problems such as immigration, westward expansion, industrialization, and racial issues from the perspective of impact on Missouri. Examination of prominent Missourians is included. This course complies with provisions of Section 170.011 RsMo. *Offered in Fall only.*

**HIS 280 Modern British History (3)**

Introduction to political/social life in modern Britain: social stratification, the historic evolution of the political infrastructure, and dealing with published materials on the historical context of British social and political issues. *Contact department chair for course availability.*

**HIS 296 History Internship (1-3)**

**Prerequisites:** HIS 101 or HIS 102 and department chair permission.

Students placed in participatory position in a government agency, museum/archives, or community organization. Requires research paper relating to some aspect of the internship.

**HIS 299 Topics in History (3)**

**Prerequisites:** Instructor permission.

Exploration of topic selected by the department. Introduction to historical research techniques and seminar approach as integral part of scholarship. *Offered in Fall and Spring.*

**INFORMATION TECHNOLOGY - IT****IT 100 IT Technical Support (A+) (3)**

Preparation to meet the requirements of the CompTIA A+ certification exam. How to build, configure, upgrade and troubleshoot PCs and mobile devices.

**IT 110 Microsoft Technologies I (3)**

Preparation to meet the requirements of Microsoft certifications in Windows desktop operating systems. Learn how to install, maintain, upgrade, and support current Microsoft desktop operating systems deployed locally or in the Azure cloud. *Offered in Fall and Spring.*

**IT 130 Introduction to Linux (3)**

An introduction to Linux operating systems. This is the first of two classes required to prepare for the Red Hat Certified System Administrator (RHCSA) certification (IT 130 & IT 230). Uses Red Hat Academy curricula.

**IT 140 Programming for System Administrators (3)**

Introduction to modern programming and scripting languages with an orientation towards system administrators. *Offered in Fall and Spring.*

**IT 151 CCNA1 (Introduction to Networks) (4)**

First Cisco Networking Academy course in a three-course sequence that prepares student for Cisco Certified Network Administrator (CCNA) certification. Learn networking fundamentals along with router and switch configuration. *Offered in Fall and Spring.*

**IT 152 CCNA2 (Switching, Routing, Wireless Essentials) (4)**

**Prerequisites:** IT 151

Second Cisco Networking Academy course in a three-course sequence that prepares student for Cisco Certified Network Administrator (CCNA) certification. Learn networking fundamentals along with router and switch configuration. *Offered in Fall and Spring.*

**IT 153 CCNA3 (Enterprise Networking, Security, Automation) (4)**

**Prerequisites:** IT 152

Third Cisco Networking Academy course in a three-course sequence that prepares student for Cisco Certified Network Administrator (CCNA) certification. Learn networking fundamentals along with router and switch configuration. *Offered in Fall and Spring.*

**IT 155 Programming for Network Administrators (4)**

**Prerequisites:** IT 140 and IT 151

Basic programming concepts used to implement network applications and to automate workflows. *Offered in Fall and Spring.*

**IT 160 Virtualization Technologies (3)**

**Prerequisites:** IT 151 and IT 130 or instructor permission.

**Corequisites:** IT 210

Introduction to virtualization technologies used in current corporate environments. Heavy emphasis on VMware. Includes VMware IT Academy curricula. *Offered in Fall and Spring.*

**IT 170 Security Fundamentals (3)**

Preparation to meet the requirements of entry level security certifications. Learn the fundamentals of workstation, server, and network security and protection of assets. *Offered in Fall and Spring.*

**IT 171 Ethical Hacking (3)**

Preparation to meet the requirements of ethical hacking certifications. Learn how a hacker penetrates a system or network so that you may better protect your company assets. *Offered in Fall only.*

**IT 172 Digital Forensics (3)**

Preparation to meet the requirements of digital forensics certifications. Learn investigative techniques to identify, collect, examine, and preserve digital evidence. *Offered in Fall only.*

**IT 173 Topics in Cyber Security I (3)**

Introduction to specialized topics in cyber security. *Offered in Fall and Spring.*

## IT 210 Microsoft Technologies II (3)

**Prerequisites:** IT 110

Preparation to meet the requirements of Microsoft certifications in Windows server operating systems and cloud technologies. *Offered in Fall and Spring.*

## IT 230 Linux Administration (3)

**Prerequisites:** IT 130

An introduction to Linux administration. This is the second of two classes required to prepare for the Red Hat Certified System Administrator (RHCSA) certification (IT 130 & IT 230). This class also prepares the student for Red Hat Certified Engineer (RHCE) certification. Uses Red Hat Academy curricula. *Offered in Fall and Spring.*

## IT 251 CCNP Enterprise Routing and Services (4)

**Prerequisites:** IT 153

Prepares students for professional-level Cisco certifications such as the CCNP Enterprise CORE exam.

## IT 252 CCNP Advanced Enterprise Routing and Services (4)

**Prerequisites:** IT 153

Prepares students for professional-level Cisco certifications such as the CCNP Enterprise Advanced Routing and Services exam.

## IT 253 CCNP Security (4)

**Prerequisites:** IT 153

Prepares students for professional-level Cisco certifications such as the CCNP Security certification.

## IT 254 CCNP Data Center (4)

**Prerequisites:** CPC 153

Prepares students for professional-level Cisco certifications such as the CCNP Data Center certification.

## IT 255 Wireless LANs (5)

**Prerequisites:** IT 152 or CCENT certification.

Introduction to Wireless LANs. Learn about wireless technologies, how to set up, maintain and secure a wireless network. *Contact department chair for course availability.*

## IT 270 Network Security (4)

**Prerequisites:** IT 152

Learn how to defend a network, workstations, servers, and other assets in an enterprise environment. *Offered in Fall and Spring.*

## IT 271 Penetration Testing (3)

**Prerequisites:** IT 171 or instructor permission.

Preparation for penetration testing. Learn how to use ethical hacking skills to conduct a penetration test that will help a company discover and address weaknesses that a hacker may exploit. *Offered in Fall and Spring.*

## IT 273 Topics in Cyber Security II (3)

More advanced topics and skills in cyber security. *Offered in Fall and Spring.*

## IT 275 CISSP (3)

Preparation for the Certified Information Systems Security Professional (CISSP) certification. *Offered in Fall and Spring.*

## IT 299 Topics in Information Technology (3)

Advanced IT topics that may vary from semester to semester. Focus on important information technology skills sets like cloud computing. *Offered in Fall and Spring.*

## INTENSIVE ENGLISH

## INE 100 Intensive English: Emerging Skills in Reading, Writing, Speaking and Listening (9)

**Prerequisites:** Placement by ESL Department Chair.**Corequisites:** ESL 115 and/or ESL 100 (if 1st semester at SCC)

Focus is on helping students in the beginning levels of language improve receptive and productive language skills and build vocabulary in preparation for more academically demanding second-level INE courses. Emphasis on conversational and survival skills needed to function in new environment. Also includes written and oral sentence construction, pronunciation, cultural basics, reading comprehension and linguistically appropriate content. A grade of C or better is needed to move into the next courses, INE 101 and INE 102.

## INE 101 Intensive English: Reading and Writing (3)

**Prerequisites:** INE 100 with a grade of C or better, TOEFL score of over 50 or placement by ESL Department Chair.**Corequisites:** INE 102 and ESL 115, plus INE 199 (unless waived by ESL Department Chair)

Instruction for non-native-speaking students in developing emerging reading and writing skills in English. Students will work on essential writing skills at sentence level composition, and they will study vocabulary and idioms. Students will also be required to read, discuss and analyze short selections. Culture sharing and acclimation to the environment in the United States will also make up some of the reading and writing assignments..

## INE 102 Intensive English: Listening and Speaking for NNS (3)

**Prerequisites:** INE 100 with a grade of C or better, a TOEFL score of over 50 or placement by ESL Department Chair.**Corequisites:** INE 101 and ESL 115 & INE 199 (unless waived by ESL Department Chair)

Instruction for non-native-speaking students to develop emerging English listening and speaking skills in both academic and life-skills based situations. Activities will build students' confidence in speaking English. Students will practice pronunciation and listen to English at word level, sentence level and in simple conversations. Vocabulary, terminology, idioms, slang, grammar and syntax will be taught implicitly and explicitly. Students will discuss, interpret and analyze short readings or videos. Both culture sharing and everyday conversational strategies and topics will be included.

## INE 111 Emerging Vocabulary I for Non-Native Speakers (1)

**Corequisites:** INE 101, INE 102 & INE 109 (recommended but not required)

Basic class to immerse students in vocabulary appropriate level of Intensive English. Also focuses on use of vocabulary in conversation and writing. Word recognition and spelling will be addressed. Note: This class will begin to focus on vocabulary that may arise in academic settings, but will also include words from everyday life to increase students' tools for operating in American society. To take this course student must place into Intensive English or ESL classes.

**INE 112 Emerging Vocabulary II for Non-Native Speakers (1)**

**Corequisites:** INE 101, INE 102, & INE 199 (recommended but not required)

Students will be immersed in vocabulary appropriate to their level of Intensive English. Also focuses on use of vocabulary in conversation and writing. Word recognition and spelling will be addressed. Note: This class will begin to focus on vocabulary that may arise in academic settings, but also includes words from everyday life to increase students' tools for operating in American society. Increase emphasis on word connotations, vocabulary expansion with word trees, grammatical forms and collocations. Placement into Intensive English or ESL classes and INE 111 or testing out of this class required.

**INE 190 Intensive English Practicum (1-3)**

**Prerequisites:** Placement by ESL Chair & INE 100 with a grade of C or better.

An immersive experience for students to demonstrate general competency with the English language as well as improve both receptive and productive language skills outside the academic environment. Course will require reflection through journals and discussions on content learned, and the professor must verify the students' attendance and participation in the setting where the students are placed. The student experience could include volunteer opportunities/exchanges on campus, in the community, or abroad where World English is practiced. Additional language skills acquired outside the classroom will include idioms, conversational skills, cultural competence, and increased vocabulary (even in World English), with expectations consistent with the intermediate level (beginning Academic ESL). A grade of C is passing, but a B or better is required for this experience to count toward the certificate. Course could be offered with a service learning option.

**INE 199 Phonics and Fluency (2)**

**Prerequisites:** Placement by ESL or Reading Chair.

**Corequisites:** ESL 101 & ESL 102 unless waived by ESL or Reading Chair.

Focus will be on improving pronunciation and fluency, especially when reading aloud. Activities include spelling and phonics

instruction as well as speaking and reading exercises designed to increase reader's fluency and natural voice when reading. A grade of C or better is needed to move into the next ESL class, ESL 104. Emphasis will be on speaking although writing will be part of the class curriculum as well.

**KINESIOLOGY - PHE****EXS 100 Introduction to Exercise Science (3)**

Introductory course that will provide a general overview of the key theories and concepts, professions, educational pathways, career options, and research areas associated with the field of Exercise Science.

**EXS 110 Introduction to Exercise Physiology (3)**

**Corequisites:** EXS-100 may be taken previously or concurrently.

This course focuses on the principles of exercise science applied to fitness instruction. The major factors related to the function of the human body will be examined/introduced with an emphasis on exercise physiology and functional anatomy.

**PHE 110 Fitness Center I (1)**

Provides guided instruction through a self-paced format of exercising in the college's fitness center. Students work independently with an instructor and learn how to properly perform exercises using cardio and resistance training exercises. With guidance, students evaluate health and fitness variables, establish fitness goals, and develop lifelong exercise habits.

**PHE 112 Weight Training I (1)**

Basic instruction in weight training. Emphasizes weight training orientation, correct lifting techniques, and basic program design for resistance training.

**PHE 115 Boot Camp (1)**

High-intense interval type training is the primary focus incorporating exercises that target the cardio-respiratory and muscular systems. Both upper and lower body exercises are combined with aerobic activities to promote fitness.

**PHE 118 Step and Body Sculpting (1)**

A combination of hand-weights, tubing, bars, and steps to provide an aerobic workout with muscle shaping exercises as a primary focus. Provides basic exercise instruction, workouts, and principles to body sculpting programs.

**PHE 119 Stretch and Strengthen (1)**

Stretching and strengthening exercises from the dance world appropriate for dancers and sport enthusiasts.

**PHE 130 Yoga (1)**

Basic principles and movements of Hatha Yoga will be engaged. Breathing and meditation techniques will also be integrated into a complete yoga experience of body/mind/spirit to improve health and fitness.

**PHE 134 Self-Defense I (1)**

Introduces basic skills and techniques of the art of self-defense in response to dangerous situations. Focuses on being mentally prepared and to be able to cope emotionally with acts of violence. Physical and flexibility conditioning are part of this course.

**PHE 142 Zumba (1)**

Provides a compilation of high energy, motivating music with unique moves and choreography combinations. Zumba fuses Latin and International music and dance themes to create a dynamic, exciting, effective fitness system.

**PHE 144 Modern Dance I (2)**

A basic movement course emphasizing beginning through intermediate elements, techniques and terminology of modern dance. Emphasis is on expression and creativity.

**PHE 145 Modern Dance II (1)**

**Prerequisites:** PHE 144 or instructor permission.

Applies more advanced principles and techniques of modern dance to performance movement and various modern dance forms.

**PHE 146 Jazz Dance I (2)**

Introduction to the basic elements, techniques and terminology of jazz dance with emphasis on proper technique to further develop performance ability using movement done to popular music.

**PHE 147 Jazz Dance II (1)**

**Prerequisites:** PHE 146 or instructor permission.

Techniques and movements to further develop and facilitate performance ability in jazz dance.

**PHE 148 Tap Dance I (2)**

Introduction to the basic steps of tap technique with emphasis on combinations to develop an understanding of coordination, rhythmic variations and performance skills. Tap shoes are required.

**PHE 155 Racquetball (1)**

Game played on indoor court using racquet and hard rubber ball. Eye protection recommended.

**PHE 160 Hiking (1)**

Provides opportunities to learn skills related to hiking and wilderness travel. Emphasizes hiking skills, proper conditioning, route finding and travel, clothing, gear, and equipment, hiking hazards and ethics. The course involves weekend hikes on nearby established trails. *Offered in Fall and Summer.*

**PHE 162 Indoor Rock Climbing (1)**

Basic rock climbing techniques are taught utilizing an indoor artificial climbing wall. Basic climbing knots, terminology and etiquette, equipment, and safety are emphasized.

**EXS 200 Muscular Fitness Assessment and Program Design (2)**

**Prerequisites:** EXS-110

This course will focus on the principles of muscular fitness which will include evaluation of movement patterns, selection and interpretation of assessment techniques, and utilize evidence-based program design for healthy and special populations.

**EXS 205 Flexibility and Balance Assessment and Program Design (2)**

**Prerequisites:** EXS-110

The course will use the principles of flexibility and balance including evaluation of movement patterns, selection and interpretation of assessment techniques and evidence-based program design for healthy and special populations.

**PHE 208 Outdoor Recreation and Leadership (3)**

An introduction to the field of outdoor recreation and leadership. Identifies the value, meaning and benefits of outdoor recreation experiences, and explores a variety of outdoor adventure leadership experiences. Natural resources, state and federal agencies, governmental and private-sector impacts will be explored as well as outdoor activity and safety skills. *Offered in Spring only.*

**EXS 210 Cardiorespiratory Fitness Assessment and Program Design (2)**

**Prerequisites:** EXS-110

This course is designed to follow the principles of cardiorespiratory fitness training to include evaluation of client needs and goals, assessment of cardiorespiratory fitness, selection and interpretation of assessment techniques, and evidence-based program design for healthy and special populations.

**PHE 210 First Aid/Safety (2)**

Prepares students to respond to emergencies. Covers skills in basic life support, airway obstruction, control bleeding, shock management, splinting, and providing care to responsive and unresponsive individual. CPR, AED and First Aid certification is awarded if the student successfully passes the written exams and practical skills.

**PHE 211 Cardiopulmonary Resuscitation (CPR)/Automated External Defibrillator (AED) (1)**

Basic overview of Cardiopulmonary Resuscitation (CPR) and Automated External Defibrillator (AED). Covers breathing emergencies and the guidelines and techniques for performing CPR and utilizing an AED.

**EXS 215 Weight Management and Motivation Assessment and Program Design (2)**

**Prerequisites:** EXS-110

Course provides an overview of the principles of weight management including evidence-based program design and interpretation of assessments for various populations as well as explanation of theories of motivation and behavior modification.

**PHE 215 Personal Wellness (2)**

Focus is on developing positive lifestyles by integrating the concepts of wellness and fitness to gain a comprehensive understanding of personal wellness. Students will evaluate needs and develop an action plan of personal wellness. Course combines lecture and wellness and fitness assessments.

**EXS 220 Resistance Training and Recovery Techniques (3)**

**Prerequisites:** EXS-110 or Instructor Permission.

This course focuses on the fundamental methods for safe and effective instruction of resistance and functional movement training exercises. Applications of fundamental principles and kinesiology. An overview of warm-up, cooldown, and recovery techniques will be explored.

**PHE 220 Stress Management (3)**

Explores the nature of stress and the physiological and psychological effects upon the body due to prolonged stress responses. Short and long term somatic and behavioral techniques for applied stress control (i.e. exercise, nutrition, relaxation, visualization, meditation, goal setting, and time management) will be examined. *Offered in Spring only.*

**EXS 225 Cardiorespiratory and Flexibility Training (3)**

**Prerequisites:** EXS-110 or Instructor Permission

Course provides a focus on the fundamental methods for safe and effective instruction of cardiorespiratory and flexibility training exercises. Application of foundational principles of physiology and kinesiology.

**EXS 230 Personal Training Skills and Techniques Internship (1-3)**

**Prerequisites:** Completion of nine (9) credits of EXS courses with a grade of C or better, current CPR and AED certification, and permission of the Chair/Program Director.

A capstone experience in a fitness or health-related facility. Forty-five (45) hours of designated work per credit.

**PHE 230 Healthful Living (3)**

Provides an overview of health and wellness issues related to individual and community health. Topics include: physical, psychological, emotional, spiritual, social, and environmental well-being; personal nutrition and weight management; stress management; and healthy and unhealthy lifestyle choices and actions.

**EXS 240 Sport Science Internship (1-3)**

**Prerequisites:** Completion of nine (9) credits of EXS courses with a grade of C or better, current CPR and AED certification, and permission of the Chair/Program Director.

A capstone experience in a fitness or health related facility supervised by a National Strength and Conditioning Association (NSCA) Certified Strength and Conditioning Specialist (CSCS) professional. Forty-five (45) hours of designated work per credit.

**PHE 240 Nutrition for Weight Management (3)**

Nutrition and weight management principles to gain an understanding of the role they play in a healthy lifestyle. Topics include: weight management overview, assessment of factors associated with nutrition and weight management, eating disorders and behavior modification, energy metabolism, physical activity and dietary approaches to weight management. *Offered in Fall and Spring.*

**PHE 241 Introduction to Nutrition (3)**

Introduction to the science of food and human nutrition. Current sustainable dietary recommendations and applications for maximizing well-being and minimizing risk of chronic disease throughout the life cycle. An overview of the nutrients, emphasizing the importance of energy and fluid balance, and optimal functioning of the digestive system. Understanding factors that influence food intake in different cultures. Methods for evaluating credibility of nutrition claims, a focus on modern food safety and technology practices, and a worldview of nutrition are included. Emphasis is on personal dietary behavior change for a holistic life of wellness..

**PHE 242 Principles of Human Nutrition (3)**

Scientific principles of human nutrition. Emphasis on scientific literacy and the study of nutrients for disease prevention. Includes micro and macro nutrients, human nutrient metabolism and nutrition's role in the health

of the human body throughout the life cycle. Addresses nutrition principles for prevention of nutrition-related health conditions.

**PHE 242 Nutrition for Special Populations (3)**

**Prerequisites:** PHE 241 or PHE 242

Nutritional changes and appropriate management across the lifespan to maximize health and longevity. Addresses needs of those individuals with particular dietary restrictions, requirements or deficiencies. Includes special dietary needs of those diagnosed with common pathologies such as heart disease, diabetes.

**PHE 245 Nutrition for Sports Performance (3)**

Nutrition concepts and components are the focus as they relate to physical activity, sport performance, and the athlete. The course integrates nutrition and exercise science into one format that provides sound and practical sport nutrition and performance principles and guidelines.

**PHE 265 Foundations of Sport Management (3)**

Introduction to the field of sport management. The areas of study include principles and functions, leadership issues, sport policy and governance, sport law and ethics, facility management, sport marketing, economics, finance, event management, and career opportunities in sport management. *Offered in Fall only.*

**PHE 270 Sociological Aspects of Sports (3)**

Introduction to the relationships between sports, values, culture, and society. Identify and explore issues related to sports from personal experiences, academic settings, communities, and societies. Guided by sociological research and theory, an understanding of sports take into account the social and cultural contexts in which sports are created, played, given meaning, and integrated into people's lives. *Offered in Fall only.*

**PHE 275 Sport and Exercise Psychology (3)**

An overview of sport and exercise psychology that bridges the gap between research and practice. Focus is on the fundamental principles of professional practice to provide an understanding of psychological issues affecting performance and how to use or apply sport and exercise psychology knowledge to various situational aspects. *Offered in Spring only.*

**PHE 280 Women's Fast-Pitch Varsity Softball (1)**

**Prerequisites:** Instructor permission.

Enrollment limited to members of varsity team.

**PHE 282 Women's Fast Pitch Varsity Softball II (1)**

**Prerequisites:** PHE 280 and instructor permission.

Women's Fast-Pitch Varsity Softball II is limited to second year members of the varsity team. Credit awarded for varsity athletes during required practices/game season.

**PHE 283 Women's Varsity Soccer (1)**

**Prerequisites:** Instructor permission.

Limited to members of the women's varsity soccer team. Awards credit for varsity athletes during the required practices/game season.

**PHE 284 Women's Varsity Soccer II (1)**

**Prerequisites:** PHE 283 and instructor permission.

Continuation of PHE 283. Women's Varsity Soccer II is limited to second year members of the varsity team. Credit awarded for varsity athletes during the required practices/game season.

**PHE 290 Men's Varsity Baseball (1)**

**Prerequisites:** Instructor permission.

Enrollment limited to members of varsity team.

**PHE 292 Men's Varsity Baseball II (1)**

**Prerequisites:** PHE 290 and instructor permission.

Continuation of PHE 290. Men's Varsity Baseball II is limited to second year members of the varsity team. Credit awarded for varsity athletes during required practices/game season.

**PHE 293 Men's Varsity Soccer (1)**

**Prerequisites:** Instructor permission.

Limited to members of the men's varsity soccer team. Awards credit for varsity athletes during required practices/game season.

## PHE 294

## Men's Varsity Soccer II (1)

**Prerequisites:** PHE 293 and instructor permission.

Continuation of PHE 293. Men's Varsity Soccer II is limited to second year members of the varsity team. Credit awarded for varsity athletes during required practices/game season.

## LITERATURE

## LIT 200 World Mythology (3)

**Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102.

Survey of central myths of Greece, Middle East, Africa, India, Native America, and China. Emphasis on how myths have shaped various cultures.

## LIT 201 Mythology in Western Culture (3)

**Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102.

This class focuses on the pervading influence of Western mythological traditions in literature and culture. *Offered in Fall and Spring.*

## LIT 205 Introduction to Literature (3)

**Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102.

An introductory survey of major literary works, with special attention given to terminology and critical analysis.

## LIT 207 Introduction to the Bible as Literature - The Old Testament: Genesis through Malachi (3)

**Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102.

A review of Biblical significance and influence in secular literature. Biblical literacy is assumed by such authors as Chaucer, Keats, Shakespeare, Asimov, Kemp, and Atwood. Cultural touchstones of morality, humanity, and sexuality grounded in Biblical texts will be examined in literature. *Contact department chair for course availability.*

## LIT 210 American Literature From Beginnings -1865 (3)

**Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102.

Study of development of U.S. literary tradition through 1865. Reading and discussion of myth, folklore, poetry, fiction, drama, historical documents, and other texts.

## LIT 215 Introduction to Poetry (3)

**Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102.

A close study of poetry with special emphasis on the varieties of poetic form and the means of interpretation and evaluation. The works studied will be international in nature and from at least three different centuries. *Offered in Fall and Spring.*

## LIT 216 Dramatic Literature (3)

**Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102.

Introductory course in dramatic literature stressing the influences of the past upon modern theatre, the commonality and differences between theatrical and filmed drama, and the process on how the written script becomes a live or filmed production. *Contact department chair for course availability.*

## LIT 218 Literature about Place (3)

**Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102.

With increasing mobility and blending of cultures, ideas about place and setting are even more crucial to identity than in the past.

## LIT 220 American Literature From 1865-present (3)

**Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102.

Survey of American literature beginning with the period after the Civil War to the present. Major American writers in poetry, fiction, and drama will be read and discussed in relation to the development of intellectual thought and literary theory. Includes writers who reflect diverse voices (Native American, African American, Asian American, Latin American, etc.) who make America unique.

## LIT 221 The American Dream and the 20th Century (3)

**Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102.

A multi-discipline course focusing on the concept of the American Dream in history, literature and

film. This course emphasizes the American Era from the end of WWI to the present. *Contact department chair for course availability.*

## LIT 222 Native American Literature (3)

**Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102.

A multi-disciplined study of the contribution of non-Europeans upon the national culture. *Contact department chair for course availability.*

## LIT 223 African American Literature (3)

**Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102.

Survey of African-American literature from colonial America to present day United States. Includes slave narratives, essays speeches, music, poetry, short fiction, novels and drama/film, as well as a focus on their historical contexts. *Offered in Spring only.*

## LIT 224 Multicultural Literature (3)

**Prerequisites:** ENG-101 with a grade of C or better.

This course explores how literature imagines worldwide cultural identities, conflicts within and between cultural identities, conflicts within and between cultural groups, and efforts to resolve these conflicts.

## LIT 230 Contemporary Fiction (3)

**Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102.

Introduction to American and international fiction written from 1960 to the present. Includes short and long fiction with major emphasis on the similarities and differences of the cultural narratives that reflect the global village.

## LIT 236 Science Fiction (3)

**Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102.

Focus on interplay between society and scientific theories, advances and fears of change. Beginning in the romantic period, examines societal reactions to challenges presented by scientific discovery and the resulting changes in world view. Course uses fiction and film.

## LIT 237 Detective Fiction (3)

**Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102.

Among the most popular type of genre fiction, beginning with E.A. Poe. Reflecting values and fears of the society and provides entertainment and insight into cultures past and present. Classic writers of detective fiction, contemporary practitioners and film examples are used. *Offered in Fall only.*

## LIT 238 Horror Fiction (3)

**Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102.

Examination of classic and contemporary writing in order to explore the human fascination with the monstrous, the supernatural, and states of psychological consciousness. Includes the evolution of the horror genre and examine its place in the literary cannon. *Offered in Fall and Spring.*

LIT 239  
Humor in Literature (3)

**Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102.

Explores humor in various media, including written sketches, short stories, novels, film by various writers, and the evolution of the humor genre, as well as the value it holds both historically and presently. *Contact department chair for course availability.*

## LIT 240 Contemporary Literature (3)

**Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102.

Survey of post-modern literature from 1946 to the present. Includes reading and discussion of poems, essays, short stories, plays, and novels representative of the global and multicultural nature of contemporary society. *Offered in Fall and Spring.*

## LIT 241 Sociology Through Literature (3)

**Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102 and SOC 101.

Application of sociological concepts to literature to analyze socio-historical events. *Contact department chair for course availability.*

## LIT 242 Post Colonial Literature (3)

**Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102.

From Australia to Asia, from the Middle East to Africa, writers in the former colonies of the British empire found a unique voice to explore their lives and their countries. Focuses on the voices of post-colonial literature in the 20th century as they deal with issues of power, gender and politics. *Contact department chair for course availability.*

## LIT 250 English Literature Before 1800 (3)

**Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102.

Overview of earliest works written in English. Traces development of various forms of literature from beginnings in early Anglo-Saxon poetry through Shakespeare's plays and Romantic Poets. *Offered in Fall and Spring.*

## LIT 252 Introduction to Shakespeare (3)

**Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102.

Introductory course of Shakespeare's insights into human behavior, the conflict inherent within societies, and his use of language. *Offered in Fall and Spring.*

## LIT 260 English Literature After 1800 (3)

**Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102.

Overview of English literature beginning with Romantics and continuing through Modern Age. Includes poetry, drama, fiction, and essays. *Offered in Fall and Spring.*

## LIT 262 Gothic Literature (3)

**Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102.

Focuses on a broad reading of novels, films, stories, and poems in the Gothic literary sensibility. Unlike horror fiction, which focuses on grisly detail, Gothic is primarily concerned with fear of the unknown and resulting paranoia.

## LIT 265 Fiction to Film (3)

**Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102.

Investigates fiction and film with emphasis on their uniqueness and relationship, their common narrative elements that convince reader and

viewer of their correspondence to life, and of the process of translation from one narrative form to another. *Offered in Fall and Spring.*

## LIT 267 Film as Literature (3)

**Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102.

This course seeks to read film from a literary perspective; discussions and readings are rooted in literary concepts such as character, theme, narrative structure, genre, motif, symbol, literary theory and adaptation. Sections of the course may generally survey this topic or be focused on a particular topic such as a single director, genre, or discourse.

## LIT 271 Literature and Contemporary Cultures (3)

**Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102.

Introduction to prose, poetry, drama, and film from around the globe by authors from 1900 to Present.

## LIT 272 World Literature - Ancient World Through the Renaissance (3)

**Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102.

Survey course in the foundations of world literary traditions from pre-Classical and Classical World through Middle Ages and Renaissance. *Contact department chair for course availability.*

## LIT 273 World Literature - Enlightenment to the Present (3)

**Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102.

Survey course in the foundations of world literary traditions from the European Enlightenment through the 20th century.

## LIT 274 Evolution of the Tragedy: Tragic Heroes and Heroines (3)

**Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102.

Overview of the evolution of dramatic tragedy from Greek to Modern theatre. *Contact department chair for course availability.*



## LIT 275

## Holocaust Literature (3)

**Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102.

Study of novels, essays, poetry, and other art centered on genocide in the Second World War and the post-Holocaust world. Explores matters of Jewish particularity as well as global implications of the Holocaust. *Offered in Spring only.*

## LIT 280 Gender Issues in Literature (3)

**Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102.

Through the reading of fiction and non-fiction texts, this class introduces students to literary, cultural, political and historical issues that shape gender and identity.

## LIT 289 Writing about Literature (3)

**Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102.

This course focuses on different ways of reading literature, using various theoretical lenses. Read the words of literary theorists and then apply their analysis along to novels, poems, short stories, drama, and films. *Contact department chair for course availability.*

## LIT 299

## Topics in Literature (3)

**Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102.

Variety of special literature studies offered. *Contact department chair for course availability.*

## LOGISTICS - LGM

## LGM 100 Survey of Industrial Careers (1)

Introduction to career opportunities in manufacturing and supply chain management. Includes career exploration through interaction with regional professionals, guest seminars and university transfer information. Emphasis is placed on current trends in manufacturing and logistics (quality practice, globalization, automation, and technology.) Content focuses on aspects critical to a manufacturing and supply chain professionals. *Offered in Fall only.*

## LGM 101 Logistics and Supply Chain I (3)

Foundational knowledge needed to understand the world of supply chain logistics

and related core competencies including: safety, quality control, communications, teamwork, good workplace conduct, and familiarity with computer systems that support supply chain operations.

## LGM 105 Introduction to Supply Chain Operational Management (3)

Covers concepts, principles and techniques for managing supply chains and operations in the manufacturing and service sectors. Fundamental terminology, functions and responsibilities encountered in the field of supply chain and operations management will be included. *Offered in Fall and Spring.*

## LGM 205 Global Logistics, Trade, and Culture (3)

**Prerequisites:** LGM 105

Provides essential skills and knowledge for managing supply chain logistics in global markets. Emphasis on practical applications of supply chain management as they pertain to international business, including: cultural considerations, transportation modes; taxes, duties and quotas; trade agreements; packaging requirements; use of intermediaries; documentation requirements; legal and regulatory requirements; insurance; trade conventions; and the offshore procurement process. *Offered in Fall and Spring.*

## LGM 210 Logistics and Supply Chain II (3)

**Prerequisites:** LGM 101

Emphasis on mid-level technical knowledge needed to understand the world of supply chain logistics and related core competencies. Includes product receiving, product storage, order processing, packaging, shipment, inventory control, safe handling of hazardous materials, evaluation of transportation modes, custom, and dispatch and tracking operations. Certified Logistics Associate (LGM 101) (MSSC) is a prerequisite to taking this course. Prepares students for MSSC/CLT. Includes a required certified exam upon class completion.

## LGM 215 Introduction to Data Analytics (3)

Introduction of basic concepts related to data analytics, some analysis techniques and the practice and use of data analytics in supply chain and logistics. Learn to identify, locate, analyze and report on business data sources both qualitatively and quantitatively. *Offered in Fall and Spring.*

## LGM 290

## Internship Capstone (1)

**Prerequisites:** Sophomore standing and department chair approval.

Provides an experiential learning opportunity as students apply knowledge, concepts and skills associated with the core courses in the degree.

## MANUFACTURING - MFG

## MFG 101

## Principles of Safety (3)

Introduction to the manufacturing world including specific instruction to facilitate safe work practices in industrial environment. Students will have an opportunity to sit for the Manufacturing Skills Standards Council Safety module certification test for an additional fee.

## MFG 105 Employment Strategies (1)

This course will assist students in securing employment. Students will develop an awareness of personal and academic skills as related to the job-seeking process.

## MFG 111 Principles of Quality Practices (3)

**Prerequisites:** MFG 101

Provides knowledge and skills related to effective quality processes and practices used in today's manufacturing industry. Students will have an opportunity to sit for the Manufacturing Skills Standards Council Quality module certification test for an additional fee.

## MFG 130 (3)

## Basic Blue Print Reading (.)

Basic Blueprint Reading enables students to understand the various types of blueprints, shop prints and schematics used in an industrial environment. Learning to read blueprints, trainees discover how to comprehend, and interpret the different types of standard symbols and abbreviations found on electrical construction drawings, schematics, and wiring diagrams

## MFG 132 Precision Tools and Measurement (3)

Provides the study of basic measuring tools used in manufacturing today. This course will

provide students with proficiency in using and reading basic measuring devices. *Offered in Fall and Spring.*

### MFG 141 Principles of Green Production (3)

Introduction to the sustainability principles of "green" production, defined as workplace activities across all industries within the manufacturing sector that require the use of equipment, technologies, and processes to improve the environmental performance of manufacturing companies. *Offered in Spring only.*

### MFG 201 Principles of Manufacturing Processes and Production (3)

**Prerequisites:** MFG 101

Provides a broad understanding of manufacturing sub-industries and their related products, processes, challenges and best practices. Students will have an opportunity to sit for the Manufacturing Skills Standards Council Manufacturing Processes module certification test for an additional fee.

### MFG 205 Manufacturing Process Controls (3)

Provides students with current practices associated with production planning, production scheduling, and controlling production.

### MFG 215 Problem Solving Tactics in Manufacturing (3)

Training in problem solving is emphasized as well as how to establish a culture of continuous improvement in a proactive environment.

### MFG 220 Principles of Maintenance Awareness (3)

**Prerequisites:** MFG 111 and MFG 201

Provides insights into basics of good maintenance practices through an understanding of electrical, mechanical and fluid power systems. Students will have an opportunity to sit for the Manufacturing Skills Standards Council Maintenance Awareness module certification test for an additional fee. *Offered in Spring only.*

### MFG 290 Internship Capstone (1)

**Prerequisites:** Sophomore standing and department chair approval.

Provides an experiential learning opportunity as students apply knowledge, concepts and skills associated with the core courses in the degree

## MATH - MAT

### MAT 055 Supplement to Contemporary College Math (2)

**Prerequisites:** Placement into MAT 155 or placement into MAT 155 corequisite model.

**Corequisites:** MAT 155

Coursework provides a supplement that reinforces prerequisite concepts and skills necessary for success in MAT 155. This course does not count toward graduation.

### MAT 056 Supplement to College Algebra - Educators (2)

**Prerequisites:** Placement into MAT 156 or placement into MAT 156 corequisite model.

**Corequisites:** MAT 156

Coursework provides a supplement that reinforces prerequisite concepts and skills necessary for success in MAT 156. *Offered in Fall and Spring.* This course does not count toward graduation.

### MAT 057 Supplement to College Statistics - General Education (2)

**Prerequisites:** Placement into MAT 157 or placement into MAT 157 corequisite model.

**Corequisites:** MAT 157

Coursework provides a supplement that reinforces prerequisite concepts and skills necessary for success in MAT 157. *Offered in Fall and Spring.* This course does not count toward graduation.

### MAT 058 Supplement to College Algebra - General Education (2)

**Prerequisites:** Placement into MAT 158 or placement into MAT 158 corequisite model.

**Corequisites:** MAT 158

Provides a supplement, which will reinforce prerequisite concepts and skills necessary for success in Math 158. This course does not count toward graduation.

### MAT 096 Pre-Algebra (4)

**Prerequisites:** Placement into MAT 096.

Topics include: signed numbers, algebraic expressions, linear equations, fractions, decimals, ratios, proportions, percent, area, perimeter, volume, Pythagorean Theorem, conversions, graphing points and linear equations, and applications of Pre-Algebra topics. This is a pass/fail course. This course does not count toward graduation.

### MAT 097 Beginning Algebra with Corequisite Pre-Algebra (5)

**Prerequisites:** Placement into MAT 096.

This beginning algebra course is designed for first-time math students who place into MAT-096, but were close to the borderline placement into MAT-098. This course is for students who want to complete developmental math coursework in one semester. It provides an opportunity for motivated students to save time and money. Students repeating beginning algebra may also take this course. See an advisor for details.

### MAT 098 Beginning Algebra (4)

**Prerequisites:** MAT 096 with a grade of P (pass) or placement into MAT 098.

Topics include: simplifying expressions; linear equations and inequalities; graphs of linear equations; writing equations of lines; integer exponent rules; scientific notation; operations on polynomials and rational expressions; factoring; solving quadratic equations by factoring; rational equations; complex fractions; and related applications. This course does not count toward graduation.

### MAT 105 Applied Math (3)

**Prerequisites:** MAT 096 with a grade of P (pass) or placement into MAT 098.

For career students to develop quantitative reasoning skills. Includes basic logic, financial decision-making, probability, statistical reasoning, linear and exponential modeling, and right triangle applications. Relevance of mathematics discussed as it relates to other disciplines. *Offered in Fall and Spring.*

### MAT 108 Understanding K-8 Mathematics (3)

**Prerequisites:** MAT 096 with a grade of P (pass) or placement into MAT 098

Basic concepts of the K-8 math curriculum. Concepts experienced through multiple representations: numerically, algebraically, geometrically and verbally. *Offered in Spring only.*

**MAT 110 Industrial Mathematics (3)**

**Prerequisites:** MAT 096 with a grade of P (pass) or placement into MAT 098.

Covers mathematical problems designed for career and technical students. Topics include: measurement, algebra, geometry, trigonometry, and vectors. These are presented at an introductory level with an emphasis on applications in the trades. *Offered in Fall and Spring.*

**MAT 121 Intermediate Algebra (4)**

**Prerequisites:** MAT 097 or MAT 098 with a grade of C or better or placement into MAT 121 or higher.

Topics include: linear systems of equations in two or three variables; linear inequalities; set operations; absolute value equations and inequalities; polynomial functions; rational exponents; radical expressions; complex numbers; radical, quadratic, exponential, and logarithmic equations; graphs of linear, quadratic, exponential, logarithmic functions; circles; and related applications.

**MAT 146 Elementary Statistics with Health Care Applications (3)**

**Prerequisites:** MAT 097 or MAT 098 with a grade of C or better or placement into MAT 121. Please see Allied Health Advisor to enroll

Topics include graphs, qualitative and quantitative data, descriptive statistics, percentiles, counting techniques, probability, probability distributions, expected value, confidence interval estimates, hypothesis testing, simple linear regression, one-way ANOVA, and interpretation of statistical outcomes. *Offered in Fall only.*

**MAT 155 Contemporary College Math (4)**

**Prerequisites:** MAT 121 with a grade of C or better or placement into MAT 155. MAT-097 or MAT-098 with a grade of A. Students with a grade of "B" or "C" in MAT-097 or MAT-098, or placement into MAT 121, may enroll in MAT-155 with the corresponding supplemental course of MAT-055 with the same instructor. Students requiring the supplemental course are required to obtain a petition from academic advising to enroll online.

This course satisfies the general education requirement for the AA degree. Topics include:

inductive and deductive reasoning, set theory, Venn diagrams, truth tables and logic, Geometry and Trigonometry, sequences and series, mathematics of finance, probability, statistics, and applications. This course is recommended for non-STEM major.s

**MAT 156 College Algebra - Educators (4)**

**Prerequisites:** MAT 121 with a grade of C or better or placement into MAT 156.

This course satisfies the general education requirement for the AAT degree for Education majors. Topics include linear and quadratic equations and inequalities, systems of linear equations, polynomials, functions and their graphs, sequences and series, perimeter, circumference, area, surface area, volume, similarity, congruence, Pythagorean Theorem, Trigonometric ratios, analyzing geometric proofs, coordinate geometry, statistical graphs, counting and probability techniques, sampling, inference, and descriptive statistics including measures of central tendency and spread, and applications. *Offered in Fall and Spring.*

**MAT 157 College Statistics - General Education (4)**

**Prerequisites:** MAT 121 with a grade of C or better or placement into MAT 155. MAT-097 or MAT-098 with a grade of A. Students with a grade of "B" or "C" in MAT-097 or MAT-098, or placement into MAT 121, may enroll in MAT-155 with the corresponding supplemental course of MAT-055 with the same instructor. Students requiring the supplemental course are required to obtain a petition from academic advising to enroll online.

This course satisfies the general education requirement for the AA degree. Topics include constructing and interpreting graphs, descriptive statistics, sampling techniques, counting techniques, probability, probability distributions, confidence interval estimates, hypothesis testing, correlation, regression, and ANOVA. Students may not receive credit for both Math 157 and Math 175. This course is recommended for non-STEM majors.

**MAT 158 College Algebra - General Education (4)**

**Prerequisites:** MAT 121 with a grade of C or better or placement into MAT 158.

This course satisfies the general education requirement for the AA degree. Designed for STEM (Science, Technology, Engineering, Mathematics) and Business majors requiring higher levels of mathematics for degree

requirements. Topics include linear and quadratic equations and inequalities; complex numbers and solution of higher degree polynomial equations; systems of linear equations; matrices; graphing functions including exponential, logarithmic, rational and polynomial functions, sequences, and series. Students may not receive credit for both MAT 158 and MAT 160 or MAT 162 or MAT 171.

**MAT 168 Trigonometry (6)**

**Prerequisites:** MAT 158, MAT 160, or MAT 162 with a grade of C or better or placement into MAT 120.

Topics include angles, length of arc, trigonometric functions, law of cosines, law of sines, identities, trigonometric equations, inverse trigonometric functions, complex numbers, and polar coordinates. Students may not receive credit for both MAT 168 and MAT 171.

**MAT 171 Pre-Calculus Mathematics (6)**

**Prerequisites:** MAT 121 with a grade of B or better or placement into MAT 171.

Unified study of College Algebra and Trigonometry provides necessary background for Calculus. Includes linear, quadratic, rational, and higher degree polynomial equations and inequalities; systems of equations; relations and functions along with graphs and equations; exponentials and logarithms; inverse; degree and radian measure; trigonometric functions; identities; triangles; vectors; polar coordinates; complex numbers; matrices and determinants; sequences and series; binomial theorem; mathematical induction; and applications. Students may not receive credit for both MAT 158 and MAT 171. Students not planning to take Calculus may satisfy mathematics requirement for A.A. degree with MAT 158 or MAT 165 in lieu of MAT 171.

**MAT 175 Introductory Statistics (3)**

**Prerequisites:** MAT 158 or MAT 160 or MAT 162 with a grade of C or better or placement into MAT 175.

Topics include descriptive statistics, sampling techniques, counting techniques, probability, probability distributions, confidence interval estimates, hypothesis testing, simple linear regression, and one-way ANOVA.

**MAT 180** Calculus and Analytic Geometry I (5)

**Prerequisites:** MAT 171 with a grade of C or better or both MAT 150 or MAT 168 and MAT 158 with a grade of C or better or both MAT 150 and MAT 162 with a grade of C or better or placement into MAT 180.

First in a sequence of three courses including analytic geometry, differential calculus, and integral calculus. Recommended for majors in mathematics, computer science, physical sciences, or engineering. Includes analytic geometry, functions, limits, continuity, the derivative and differentials, applications of the derivative and differentials, antidifferentiation, indefinite and definite integrals, and applications of definite integral.

**MAT 201** Structure of Math Systems I (3)

**Prerequisites:** MAT 156 or MAT 158 or MAT 160 or MAT 162 with a grade of C or better or placement into MAT 180.

For potential elementary teachers. Topics include sets, logic, number bases, systems of numeration, system of whole numbers, systems of integers, system of rational numbers, development of real number system, field properties, algorithms for whole numbers, and terminology of mathematics. *Offered in Fall only.*

**MAT 202** Structure of Math Systems II (3)

**Prerequisites:** MAT 156 or MAT 158 or MAT 160 or MAT 162 with a grade of C or better or placement into MAT 180.

Intuitive study of elementary geometry, including constructions, congruence, similarity, motion geometry tessellation, and deductive theory of geometry. Study of measurement, including area and volumes. Introduction to concepts of probability and statistics. *Offered in Spring only.*

**MAT 210** Survey Calculus (4)

**Prerequisites:** MAT 158 or MAT 160 or MAT 162 with a grade of C or better or placement into MAT 210.

Recommended for business, life sciences, and social science majors. Focus on techniques of differential and integral calculus with application to business, life sciences, and social sciences. Trigonometry not used.

**MAT 230** Calculus and Analytic Geometry II (5)

**Prerequisites:** MAT 180 with a grade of C or better or placement into MAT 230.

Second course in sequence of three recommended for majors in mathematics, computer science, physical sciences, or engineering. Topics include transcendental functions, techniques of integration, indeterminate forms, improper integrals, infinite series, and polar curves.

**MAT 240** Calculus and Analytic Geometry III (5)

**Prerequisites:** MAT 230 with a grade of C or better.

Third course in sequence of three recommended for mathematics, computer science, physical science, or engineering majors. Topics include calculus of vectors in two or three dimensions, partial derivatives, multiple integrals and their applications; and introductory topics from differential equations.

**MAT 242** Introductory Linear Algebra (3)

**Prerequisites:** MAT 230 with a grade of C or better.

A first course in linear algebra intended for mathematics, computer science, science, and engineering majors. Topics include matrix algebra, determinants, and vector spaces, linear transformations, and eigenvalues and eigenvectors. *Offered in Fall only.*

**MAT 250** Differential Equations (3)

**Prerequisites:** MAT 240 with a grade of C or better.

First course in differential equations for mathematics, science, and engineering majors. Topics include solution and application of ordinary differential equations including n-th order nonhomogeneous equations with variable coefficients and simultaneous differential equations. Methods used include Laplace transform, power series, variation of parameter, matrix methods and introduction to numerical solutions.

**MAT 260** A Transition to Theoretical Mathematics (3)

**Prerequisites:** MAT 230 with a grade of C or better.

First course in theoretical mathematics for mathematics, computer science, engineering and science majors. Includes logic and proofs, set theory, relations and functions, cardinality, introductory abstract algebra and introductory real analysis. *Offered in Spring only.*

**MECHATRONICS - MEC****MEC 115** Machine Design (3)

Introduces analytical design of bearings, clutches, coupling, brakes, springs, gearing systems, and power shafting. Emphasizes methods of construction, machine parts and specifications of materials and manufacturing processes.

**MEC 120** Commercial Refrigeration Systems (3)

Heating systems is a course in theory, operation, and maintenance of residential and industrial heating systems. You will learn about boilers, forced air furnaces and their operation, disassembly, inspection, and repair. Preventative maintenance procedures and regulations governing maintenance programs are also addressed.

**MEC 140**

## Code (3)

History of code, water quality, treatment of waste. This course will introduce the students to both the International Plumbing Code (IPC) and the Uniform Plumbing Code (UPC) and where they differ from each other and where they are similar. Students will also be introduced to the International Mechanical Code, and terms used in all codes.

**MEC 150** Plumbing Systems (3)

This course will introduce the students to various plumbing systems including residential and commercial installation, soldering, PEX, black iron pipe, and fixture installation. Students will also study drainage including vertical and lateral drainage. They will also understand the different types of sewage systems including connection to city systems and various types of septic systems.

**MEC 210** Robotics Theory, Maintenance & Application (3)

The Robotics Theory, Maintenance & Application program introduces the students to the theory of robots including terminology, components, and basic programming. Covered will be the theory and application of servo and non-servo robots, robot types, controllers, manipulators, and basic robotic programming. Students will also learn the theory and operation of flexible and computer-integrated manufacturing and control systems. Students will develop, set up work cells, and integrate the work cells into a total computer integrated manufacturing system.

**MEC 220 Automatic System Integration (3)**

The student will apply the concepts of robots and automation by building small automation systems. This automation cell will be accomplished within the framework of an assigned team of students. Students will apply learned concepts studied in previous classes. These concepts will assist in building, testing, and running their automated work cell. Students will develop, and apply project planning, time management and cooperative methods with their team members to build their work cell. Students will learn how to design and make parts for this project. Students also will specify and purchase parts as well as, analyze system malfunctions, which may occur to the modular level. Students will practice the skills needed to interface and make repairs.

**MEC 230 Air Conditioning and Refrigeration (3)**

Air Conditioning and Refrigeration introduces general air conditioning and refrigeration principles as well as how they are applied in industrial facilities. You will also learn about the operation and maintenance of the individual components and functions of industrial cooling equipment.

**MEC 270 Sheet Metal Duct Fabrication (2)**

This course teaches the sizing, layout, fabrication, and installation of sheet metal duct work in the HVAC trade.

**MEC 280 Commercial Refrigeration Systems (3)**

This course teaches testing, troubleshooting, and servicing of commercial refrigeration systems.

## MEDICAL ASSISTING - MDA

**MDA 115 Pharmacology and Administration of Medications (2)**

**Corequisites:** HIM 110 & MDA 116

Instruction in concepts and application of pharmacological principles. Focuses on drug classifications, principles and procedures of medication administration, mathematical systems and conversions, calculation of drug problems, and medico-legal responsibilities of the medical assistant.

**MDA 116 Pharmacology and Administration of Medications Clinical (1)**

**Corequisites:** MDA 115

Clinical component in which the student applied medication administration concepts in the simulated setting using mathematical systems and conversions, calculation of medication doses, and methods of administration to include oral, parenteral and topical medications.

**MDA 120 Administrative Procedures (3)**

**Prerequisites:** HIM 110, HIM 140 & HIM 141

Focus is on medical office procedures including appointment scheduling, medical records creation and maintenance, interpersonal communications, coding, billing, collecting, third party reimbursement, credit arrangements and computer use in the medical office.

**MDA 121 Medical Specialties (2)**

**Prerequisites:** MDA 115 & MDA 116

**Corequisites:** MDA 120 & MDA 122

Provides an overview and competency training related to a variety of medical practice specialties.

**MDA 122 Medical Specialties Lab (1)**

**Corequisites:** MDA 121

Skills competency and check-off for tests and procedures related to a variety of specialty medical practices.

**MDA 140 Procedures in a Clinical Setting (2)**

**Corequisites:** MDA 120 & MDA 141

Emphasis is on patient assessment, examination and treatment as directed by physicians. Includes vital signs, collection and documentation of patient information, asepsis, office clinical procedures and other treatments as appropriate for ambulatory care settings.

**MDA 141 Procedures in a Clinical Setting Clinical (1)**

**Corequisites:** MDA 140

Skills competency and check-off for patient assessment, examination and treatment assistance, specimen collection, documentation

and procedure check-offs related to all outpatient/ambulatory clinical testing and procedures completed in the physician office.

**MDA 150 Professional Capstone (1)**

**Prerequisites:** Completion of all coursework.

**Corequisites:** MDA 151

Health-related work-based learning experience enables students to apply specialized occupational theory, skills and concepts. Direct supervision is provided by the clinical professional (faculty or preceptor) generally in a clinical setting. Clinical education is unpaid learning experience.

**MDA 151 Clinical Externship (4)**

**Prerequisites:** Completion of all coursework.

**Corequisites:** MDA 150

Health-related work-based learning experience enables students to apply specialized occupational theory, skills and concepts in real-life setting. Direct supervision is provided by the clinical professional (faculty or preceptor), generally in the professional physician or other outpatient setting. Clinical education is unpaid learning experience of 210 clock hours.

## MUSIC

**MUS 021 Recital and Concert Attendance (0)**

Attendance and/or participation at musical performances and master classes, repeated until degree requirement is satisfactorily met. Offered in Fall and Spring.

**MUS 101 Foundations of Music (3)**

Study in clefs, notation, rhythm, scale structures, pitch, and melodic writing. Basic introduction with no previous experience necessary.

**MUS 102 Accompanying (0.25)**

**Prerequisites:** MUS 151 and instructor permission

Practical experience and working knowledge of basic and advanced techniques for successful piano accompanying. Contact department chair for course availability.

**MUS 105** SCC Singers I (1)

Performance class; students will work on music culminating in public performances. May be repeated for up to 3 credit hours. *Offered in Fall and Spring.*

**MUS 106** SCC Singers II (1)

Second enrollment of MUS 105. *Offered in Fall and Spring.*

**MUS 107** SCC Singers III (1)

Third enrollment of MUS 105. *Offered in Fall and Spring.*

**MUS 108** SCC Singers IV (1)

Fourth enrollment of MUS 105. *Offered in Fall and Spring.*

**MUS 109**  
American Popular Music (3)

Survey of American popular music from 1840 to the present. Examination of the types, styles, and influential musicians of American pop music.

**MUS 110** American Music  
Appreciation (3)

Emphasis on American music as a panorama of distinct yet parallel streams-popular, folk, sacred, and classical-that reflect the uniquely diverse character of the United States. Musical styles will be compared and contrasted across regions and time, delivering a vision of American music both exuberant and inventive, a music that arises out of the history and musical traditions of many immigrants. *Contact department chair for course availability.*

**MUS 111**  
Music Appreciation (3)

Introductory course for non-music majors. Presents main elements of music, how they develop and change throughout history, and the role of music in society. Emphasis on understanding musical elements and aural applications. Attendance required at live performances.

**MUS 112** Jazz Appreciation (3)

Explores the earliest origins of jazz from Creole roots in Louisiana through blues, ragtime, Dixieland, big band, swing, be-bop, cool jazz, avante garde, Latin jazz, and fusion. Students taking this course may not receive credit for MUS 234.

**MUS 113** Musical Theatre  
Appreciation up to 1943 (3)

Study of musical theatre from its beginnings through Rodgers & Hammerstein. Students may not receive credit for both MUS 113 and THE 229. *Offered in Fall only.*

**MUS 114** Musical Theatre  
Appreciation since 1943 (3)

Study of musical theatre from Rodgers and Hammerstein to the present. Students may not receive credit for both MUS 114 and THE 230. *Offered in Spring only.*

**MUS 115** Chamber Choir (1)

**Prerequisites:** Audition with instructor permission.

Select choral ensemble specializing in chamber, madrigal, and show choir literature, culminating in public performance. May be repeated for up to 3 credit hours. *Offered in Fall and Spring.*

**MUS 116** Chamber Choir II (1)

**Prerequisites:** MUS 115

Select choral ensemble specializing in chamber, madrigal, and show choir literature, culminating in public performance. May be repeated for up to 3 credit hours. *Offered in Fall and Spring.*

**MUS 117** Chamber Choir III (1)

**Prerequisites:** MUS 116

Select choral ensemble specializing in chamber, madrigal, and show choir literature, culminating in public performance. May be repeated for up to 3 credit hours. *Offered in Fall and Spring.*

**MUS 118** Chamber Choir IV (1)

**Prerequisites:** MUS 117

Select choral ensemble specializing in chamber, madrigal, and show choir literature, culminating in public performance. May be repeated for up to 3 credit hours. *Offered in Fall and Spring.*

**MUS 119**  
Piano Proficiency I (1)

**Corequisites:** MUS 131 & MUS 133

Entry-level piano course for music majors with little knowledge of basic rudiments and grand staff reading. The first of a four-course sequence needed to prepare music education majors to meet Missouri piano proficiency requirements for certification to teach in public schools. *Offered in Fall only.*

**MUS 120**  
Piano Proficiency II (1)

**Prerequisites:** MUS 119 or Piano Skills Exam.

Continuation of MUS 119. *Offered in Spring only.*

**MUS 121** Piano Class I (2)

Develops basic skills and techniques in piano playing, applicable to various types of music. No previous keyboard experience required. *Offered in Fall and Spring.*

**MUS 122** Piano Class II (2)

**Prerequisites:** MUS 121

Continuation of MUS 121. *Offered in Fall and Spring.*

**MUS 123** Voice Class I (1)

Fundamentals of tone production, diction, posture, and breathing. Includes simple songs and part singing. *Contact department chair for course availability.*

**MUS 124** Voice Class II (1)

**Prerequisites:** MUS 123

Continuation of MUS 123. *Contact department chair for course availability.*

**MUS 125** Guitar Class I (1)

Basic guitar skills through a classic method, including first-position notes and scales, root chords, and accompaniment patterns while developing solo and ensemble skills. Recommended materials: Classic Guitar. *Offered in Fall and Spring.*

**MUS 126** Guitar Class II (1)

Second enrollment of MUS 125. *Offered in Fall and Spring.*

**MUS 127** Guitar Class III (1)

Third enrollment of MUS 125. *Offered in Fall and Spring.*

**MUS 128** Guitar Class IV (1)

Fourth enrollment of MUS 125. *Offered in Fall and Spring.*

**MUS 129**  
Percussion Class I (1)

Open to students with little or no previous formal training. Note-reading and basic percussion playing techniques for snare drum, timpani, xylophone/marimba, orchestral percussion instruments, drum set, and Latin

percussion instruments (bongos, congas, timbales, etc.) will be included. Selected works for each instrument will be studied. *Contact department chair for course availability.*

### MUS 130 Percussion Class II (1)

**Prerequisites:** MUS 129

Open to students with little or no previous formal training. Note-reading and basic percussion playing techniques for snare drum, timpani, xylophone/marimba, orchestral percussion instruments, drum set, and Latin percussion instruments (bongos, congas, timbales, etc.) will be included. Selected works for each instrument will be studied. *Contact department chair for course availability.*

### MUS 131 Music Theory I (3)

**Prerequisites:** MUS 101 or instructor permission.

**Corequisites:** MUS 133

Study of basic rhythm, melody, principal triads and inversions, dominant seventh chords, cadences, non-harmonic tones, part-writing, and keyboard harmony. *Offered in Fall only.*

### MUS 132 Music Theory II (3)

**Prerequisites:** MUS 131

**Corequisites:** MUS 134

Continuation of MUS 131 including secondary triads, seventh chords, secondary dominants, elementary modulation, figured bass, and keyboard harmony. *Offered in Spring only.*

### MUS 133 Ear Training and Sightsinging I (1)

**Prerequisites:** MUS 101 or Music Assessment Test.

**Corequisites:** MUS 131

Study of rhythmic, melodic, and harmonic dictation in major and minor scales and sightsinging in treble and bass clefs. *Offered in Fall only.*

### MUS 134 Ear Training and Sightsinging II (1)

**Prerequisites:** MUS 133

**Corequisites:** MUS 132

Continuation of MUS 133 involving more complex rhythmic, melodic, and harmonic dictation and sightsinging. *Offered in Spring only.*

### MUS 135 Women's Chorale I (1)

Treble voiced choral ensemble; students work on music culminating in public performance. Not limited to women but is only for singers with treble voices. *Contact department chair for course availability.*

### MUS 136 Women's Chorale II (1)

Second enrollment of MUS 135. *Contact department chair for course availability.*

### MUS 137 Women's Chorale III (1)

Third enrollment of MUS 135. *Contact department chair for course availability.*

### MUS 138 Women's Chorale IV (1)

Fourth enrollment of MUS 135. *Contact department chair for course availability.*

### MUS 139 Percussion Class III (1)

**Prerequisites:** MUS 129

Third semester of percussion class. *Contact department chair for course availability.*

### MUS 140 Percussion Class IV (1)

**Prerequisites:** MUS 139

Fourth semester of Percussion Class. *Contact department chair for course availability.*

### MUS 141 Show Choir I (1)

**Prerequisites:** Audition

Select choral ensemble presenting choreographed numbers from musical theatre and contemporary popular music. *Contact department chair for course availability.*

### MUS 142 Show Choir II (1)

**Prerequisites:** Audition

Second enrollment of MUS 141. *Contact department chair for course availability.*

### MUS 143 Show Choir III (1)

**Prerequisites:** Audition

Third enrollment of MUS 141. *Contact department chair for course availability.*

### MUS 144 Show Choir IV (1)

**Prerequisites:** Audition

Fourth enrollment of MUS 141. *Contact department chair for course availability.*

### MUS 145 Jazz Band I (1)

Performance course; students rehearse with semester performance as culmination. Must supply own instrument. May be repeated for up to 3 credit hours. *Offered in Fall and Spring.*

### MUS 146 Jazz Band II (1)

**Prerequisites:** MUS 145

Performance course; students rehearse with semester performance as culmination. Must supply own instrument. May be repeated for up to 3 credit hours. *Offered in Fall and Spring.*

### MUS 147 Jazz Band III (1)

**Prerequisites:** MUS 146

Performance course; students rehearse with semester performance as culmination. Must supply own instrument. May be repeated for up to 3 credit hours. *Offered in Fall and Spring.*

### MUS 148 Jazz Band IV (1)

**Prerequisites:** MUS 147

Performance course; students rehearse with semester performance as culmination. Must supply own instrument. May be repeated for up to 3 credit hours. *Offered in Fall and Spring.*

### MUS 162 English/Italian Diction (1)

Basic study of International Phonetic Alphabet and comprehensive study of rules, phonetics, and techniques of English and Italian diction in performance. *Offered in Fall only.*

### MUS 163 German/French Diction (1)

Basic study of International Phonetic Alphabet and comprehensive study of rules, phonetics, and techniques of German and French diction in performance. *Offered in Spring only.*

### MUS 164 Jazz Improvisation (2)

**Prerequisites:** MUS 101 or instructor permission.

Explores all aspects of improvisation from beginning to intermediate level. Includes various playing techniques and application of basic theory. Previous playing experience required. Must supply own instrument.

**MUS 165 Instrumental Chamber Ensemble I (1)****Prerequisites:** Audition

Performance class; students study music and performance techniques through rehearsals culminating in public performances. Must supply own instrument. *Contact department chair for course availability.*

**MUS 166 Instrumental Chamber Ensemble II (1)****Prerequisites:** MUS 165

Second enrollment of MUS 165. *Contact department chair for course availability.*

**MUS 167 Instrumental Chamber Ensemble III (1)****Prerequisites:** MUS 166

Third enrollment of MUS 165. *Contact department chair for course availability.*

**MUS 175 Concert Band I (1)**

Students study music techniques through rehearsals culminating in public performances. Must supply own instrument. *Offered in Fall and Spring.*

**MUS 176 Concert Band II (1)****Prerequisites:** MUS 175

Second enrollment of MUS 175. *Offered in Fall and Spring.*

**MUS 177 Concert Band III (1)****Prerequisites:** MUS 176

Third enrollment of MUS 175. *Offered in Fall and Spring.*

**MUS 178 Concert Band IV (1)****Prerequisites:** MUS 177

Fourth enrollment of MUS 175. *Offered in Fall and Spring.*

**MUS 185 Orchestra I (1)****Prerequisites:** Must be able to read music and be proficient on an orchestral instrument.

Preparation and performance techniques through the study of orchestral repertoire with emphasis on rehearsal disciplines and musical interpretations. Final performance at end of the semester. Enrollment subject to instrumentation. *Offered in Fall and Spring.*

**MUS 186 Orchestra II (1)****Prerequisites:** MUS 185

Second enrollment of MUS 185. *Offered in Fall and Spring.*

**MUS 187 Orchestra III (1)****Prerequisites:** MUS 186

Third enrollment of MUS 185. *Offered in Fall and Spring.*

**MUS 188 Orchestra IV (1)****Prerequisites:** MUS 187

Continuation of MUS 185. *Offered in Fall and Spring.*

**MUS 195 Wind Ensemble I (1)****Prerequisites:** Audition with instructor permission.**Corequisites:** Concert Band

A select 12-20 piece ensemble; students prepare music culminating in public performance. *Contact department chair for course availability.*

**MUS 196 Wind Ensemble II (1)****Prerequisites:** MUS 195**Corequisites:** Concert Band

Second Enrollment of MUS 195. *Contact department chair for course availability.*

**MUS 197 Wind Ensemble III (1)****Prerequisites:** MUS 196**Corequisites:** Concert Band

Third enrollment of MUS 195. *Contact department chair for course availability.*

**MUS 198 Wind Ensemble IV (1)****Prerequisites:** MUS 197**Corequisites:** Concert Band

Fourth enrollment of MUS 195. *Contact department chair for course availability.*

**MUS 210 Music Typography (2)****Prerequisites:** MUS 101

Introduction to the art of music notation using notation software.

**MUS 219****Piano Proficiency III (1)****Prerequisites:** MUS 120 or Piano Skills Exam

Intermediate level piano class for music majors who possess a knowledge of all basic rudiments. *Offered in Fall only.*

**MUS 220****Piano Proficiency IV (1)****Prerequisites:** MUS 219 or Piano Skills Exam

Continuation of MUS 219 to prepare music majors for piano proficiency exam. *Offered in Spring only.*

**MUS 225 Elements of Conducting (3)****Prerequisites:** MUS 101 or MUS 131 or MUS 132 or MUS 281 or MUS 282

Introduction to baton techniques and elements of interpretation in conducting choral and instrumental music. *Contact department chair for course availability.*

**MUS 229 Musical Theatre History up to 1943 (3)**

Study of American musical theatre from its origins through Rodgers & Hammerstein. Students taking this course may not receive credit for MUS 113. *Offered in Fall only.*

**MUS 230 Musical Theatre History since 1943 (3)**

Study of American musical theatre from Rodgers & Hammerstein to the present. Students taking this course may not receive credit for MUS 114. *Offered in Spring only.*

**MUS 231 Music History I (3)**

Survey of development of Western music from the ancient Greeks through the Baroque period. More in-depth coverage of art music than MUS 111. *Offered in Fall only.*

**MUS 232 Music History II (3)****Corequisites:** MUS 231 (recommended but not required)

Continuation of MUS 231. Survey of music from 1600-1827. *Offered in Spring only.*

**MUS 234 Jazz History (3)**

Explores earliest origins of Jazz from Creole roots in Louisiana, big band, swing, cool jazz, bebop, avant-garde, Latin jazz, and fusion. For



students planning to major in music. Students taking this course may not receive credit for MUS 112.

### MUS 235 Music in the Americas (3)

Survey of music cultures found in the Americas focusing on the imported and indigenous music along with select music such as African-American music and Latin-American music. Appropriate for general students and music students. *Contact department chair for course availability.*

### MUS 250 Music Audio Production I (3)

Basic background for working principles of audio and audio production in the music industry. Introduction to basic audio production techniques and theory. Topics include: microphones, speakers, mixing console operation, and audio editing. Students will complete projects independently and in small groups. *Offered in Fall only.*

### MUS 251 Music Audio Production II (3)

**Prerequisites:** MUS 250

Expands on recording curriculum explored in Audio 1 by increased focus on fundamentals and stereo recording. Concentration is on multi-track recording and in-depth use of Digital Audio Workstation software. *Offered in Spring only.*

### THE 259 Music Theatre Workshop I (1)

This course will provide the student with the skills needed to successfully learn and perform in a musical theatre setting. The areas to be covered include acting, movement, musicianship, artistic interpretation, and role preparation. Technique will be discussed as necessary, but that is mainly reserved for students' primary voice teacher. *Offered in Spring only.*

### MUS 259 Music Theatre Workshop I (1)

This course will provide the student with the skills needed to successfully learn and perform in a musical theatre setting. The areas to be covered include acting, movement, musicianship, artistic interpretation, and role preparation. Technique will be discussed as necessary, but that is mainly reserved for students' primary voice teacher. *Offered in Spring only.*

### THE 260 Music Theatre Workshop II (1)

**Prerequisites:** Take either THE or MUS 259.

As a continuation of MUS/THE 259, this course will provide the student with the more advanced skills needed to successfully learn and perform in a musical theatre setting. The areas to be covered include acting, movement, musicianship, artistic interpretation, and role preparation. Technique will be discussed as necessary, but that is mainly reserved for students' primary voice teacher. *Offered in Spring only.*

### MUS 260 Music Theatre Workshop II (1)

**Prerequisites:** Take either THE or MUS 259.

As a continuation of MUS/THE 259, this course will provide the student with the more advanced skills needed to successfully learn and perform in a musical theatre setting. The areas to be covered include acting, movement, musicianship, artistic interpretation, and role preparation. Technique will be discussed as necessary, but that is mainly reserved for students' primary voice teacher. *Offered in Spring only.*

### MUS 261 Music Business (3)

This course presents a broad overview of the music industry, and explains how its various segments operate on a day-to-day basis: where monies are generated, who the key players are, how deals are made and broken, how to protect your interests, and new developments in digital technology that are changing the way that music is marketed, promoted, distributed, and heard.

### MUS 264 Jazz Improvisation II (2)

**Prerequisites:** MUS 164

Continuation of concepts and techniques learned in Jazz Improvisation I. Explore stylistic trends and developments of jazz improvisation. *Contact department chair for course availability.*

### MUS 270 Musical Theatre Practicum (1-3)

A performing ensemble workshop emphasizing individualized training and performance of musical theatre literature. Musical coaching/rehearsal, stage movement, character development, and technical stage training may be included. *Offered in Spring only.*

### MUS 281 Music Theory III (3)

**Prerequisites:** MUS 132

**Corequisites:** MUS 283

Continuation of MUS 132. Including secondary functions 1 and 2, modulations, Binary and Ternary Form. *Offered in Fall only.*

### MUS 282 Music Theory IV (3)

**Prerequisites:** MUS 281

**Corequisites:** MUS 284

Continuation of MUS 281. *Offered in Spring only.*

### MUS 283 Ear Training and Sight-singing III (1)

**Prerequisites:** MUS 134

**Corequisites:** MUS 281

Continuation of MUS 134. *Offered in Fall only.*

### MUS 284 Ear Training and Sight-singing IV (1)

**Prerequisites:** MUS 283

**Corequisites:** MUS 282

Continuation of MUS 283. *Offered in Spring only.*

### MUS 285 Woodwind Methods (2)

Prepare to teach woodwind instruments to elementary and middle school level students. Techniques for successful beginning woodwind instruction and performance are studied, along with instructional planning, procedures, and resource materials. Students' teaching and playing competencies will be centered on the flute, clarinet, and saxophone. Students will also become familiar with the oboe and bassoon. *Contact department chair for course availability.*

### MUS 286 Brass Methods (2)

Prepare to teach brass instruments to elementary and middle school level students. Techniques for successful beginning brass instruction and performance are studied, along with instructional planning, procedures, and resource materials. Students' teaching and playing competencies will be on the trumpet, French horn, trombone, euphonium and tuba. *Contact department chair for course availability.*

### MUS 287 String Methods (2)

Prepare to teach string instruments to elementary and middle school level students. Techniques for successful beginning string instruction and performance are studied, along with instructional planning, procedures, and resource materials. Students' teaching and playing competencies will be on the violin,

viola, cello and bass. *Contact department chair for course availability.*

### MUS 288 Percussion Methods (2)

Prepare to teach the major instruments found in the percussion family to elementary and middle school level students. Techniques for successful beginning percussion instruction and performance are studied, along with instructional planning, procedures, and resource materials. Students' teaching and playing competencies will be on the major instruments found in the percussion family. *Contact department chair for course availability.*

### MUS 295 Opera Theatre Workshop (1)

**Prerequisites:** Instructor permission.

This course will provide the student with the skills needed to successfully learn and perform in an operatic setting. The areas to be covered include acting, movement, musicianship, artistic interpretation, and role preparation. Technique will be discussed as necessary, but that is mainly reserved for students' primary voice teacher. *Offered in Fall only.*

### MUS 299 Sophomore Recital (0)

**Prerequisites:** Completion of at least three (3) semesters of applied instrumental or vocal instruction (e.g. MUS 154).

Solo presentation (with accompaniment) in a recital-type setting of at least 30 minutes. *Offered in Fall and Spring.*

## MUSIC/PRIVATE LESSONS - BRASS - MVB

### MVB 101 Trumpet Lessons I (1-2 hrs)

**Corequisites:** Must be pursuing a degree in the performing arts or AFA in music education or department chair permission to enroll.

Individual 30 (1 credit) or 60 minute (2 credits) weekly music lessons culminating in a solo performance. In the fall and spring semesters, this includes 14 lessons plus a jury/final performance. Enrollment is restricted to students pursuing a degree in the performing arts.

### MVB 102 Trumpet Lessons II (1-2 hrs)

**Prerequisites:** MVB 101

**Corequisites:** Must be currently pursuing a degree in the performing arts or an AFA in music education or have department chair permission to enroll.

Individual 30 (1 credit) or 60 (2 credits) weekly music lessons culminating in a solo performance. In the Fall and Spring semesters, this includes 14 lessons plus a jury/final performance. Enrollment is restricted to students pursuing a degree in the performing arts.

### MVB 103 Trumpet Lessons III (1-2 hrs)

**Prerequisites:** MVB 102

Individual 30 (1 credit) or 60 minute (2 credit) weekly music lessons culminating in a solo performance. In the Fall and Spring semesters, this includes 14 lessons plus a jury/final performance. Enrollment is restricted to students pursuing a degree in the performing arts.

### MVB 104 Trumpet Lessons IV (1-2 hrs)

**Prerequisites:** MVB 103

**Corequisites:** Must currently be pursuing a degree in the performing arts or AFA in Music Education or department chair permission.

Individual 30 (1 credit) or 60 minute (2 credit) weekly music lessons culminating in a solo performance. In the Fall and Spring semesters, this includes 14 lessons plus a jury/final performance. Enrollment is restricted to students pursuing a degree in the performing arts.

### MVB 111 French Horn Lessons I (1-2 hrs)

**Corequisites:** Must currently be pursuing a degree in the performing arts or AFA in Music Education or department chair permission.

Individual 30 (1 credit) or 60 minute (2 credit) weekly music lessons culminating in a solo performance. In the Fall and Spring semesters, this includes 14 lessons plus a jury/final performance. Enrollment is restricted to students pursuing a degree in the performing arts.

### MVB 112 French Horn Lessons II (1-2 hrs)

**Prerequisites:** MVB 111

**Corequisites:** Must currently be pursuing

a degree in the performing arts or AFA in Music Education or with department chair permission.

Individual 30 (1 credit) or 60 minute (2 credit) weekly music lessons culminating in a solo performance. In the Fall and Spring semesters, this includes 14 lessons plus a jury/final performance. Enrollment is restricted to students pursuing a degree in the performing arts.

### MVB 113 French Horn Lessons III (1-2 hrs)

**Prerequisites:** MVB 112

**Corequisites:** Must currently be pursuing a degree in the performing arts or AFA in Music Education or department chair permission.

Individual 30 (1 credit) or 60 minute (2 credit) weekly music lessons culminating in a solo performance. In the Fall and Spring semesters, this includes 14 lessons plus a jury/final performance. Enrollment is restricted to students pursuing a degree in the performing arts.

### MVB 114 French Horn Lessons IV (1-2 hrs)

**Prerequisites:** MVB 113

**Corequisites:** Must currently be pursuing a degree in the performing arts or AFA in Music Education or department chair permission.

Individual 30 (1 credit) or 60 minute (2 credit) weekly music lessons culminating in a solo performance. In the Fall and Spring semesters, this includes 14 lessons plus a jury/final performance. Enrollment is restricted to students pursuing a degree in the performing arts.

### MVB 121 Trombone Lessons I (1-2 hrs)

**Corequisites:** Must currently be pursuing a degree in the performing arts or AFA in Music Education or department chair permission.

Individual 30 (1 credit) or 60 minute (2 credit) weekly music lessons culminating in a solo performance. In the Fall and Spring semesters, this includes 14 lessons plus a jury/final performance. Enrollment is restricted to students pursuing a degree in the performing arts.

### MVB 122 Trombone Lessons II (1-2 hrs)

**Prerequisites:** MVB 121

**Corequisites:** Must currently be pursuing a degree in the performing arts or AFA in Music Education or department chair permission.

Individual 30 (1 credit) or 60 minute (2 credit) weekly music lessons culminating in a solo performance. In the Fall and Spring semesters,





Individual 30 (1 credit) or 60 minute (2 credit) weekly music lessons culminating in a solo performance. In the Fall and Spring semesters, this includes 14 lessons plus a jury/final performance. Enrollment is restricted to students pursuing a degree in the performing arts.

#### MVG 204 Guitar Classical Lessons VIII (1-2 hrs)

**Prerequisites:** MVG 203

**Corequisites:** Must currently be pursuing a degree in the performing arts or AFA in Music Education or department chair permission.

Individual 30 (1 credit) or 60 minute (2 credit) weekly music lessons culminating in a solo performance. In the Fall and Spring semesters, this includes 14 lessons plus a jury/final performance. Enrollment is restricted to students pursuing a degree in the performing arts.

#### MVG 211 Guitar-Jazz Lessons V (1-2 hrs)

**Prerequisites:** MVG 114

**Corequisites:** Must currently be pursuing a degree in the performing arts or AFA in Music Education or department chair permission.

Individual 30 (1 credit) or 60 minute (2 credit) weekly music lessons culminating in a solo performance. In the Fall and Spring semesters, this includes 14 lessons plus a jury/final performance. Enrollment is restricted to students pursuing a degree in the performing arts.

#### MVG 212 Guitar-Jazz Lessons VI (1-2 hrs)

**Prerequisites:** MVG 211

**Corequisites:** Must currently be pursuing a degree in the performing arts or AFA in Music Education or department chair permission.

Individual 30 (1 credit) or 60 minute (2 credit) weekly music lessons culminating in a solo performance. In the Fall and Spring semesters, this includes 14 lessons plus a jury/final performance. Enrollment is restricted to students pursuing a degree in the performing arts.

#### MVG 213 Guitar-Jazz Lessons VII (1-2 hrs)

**Prerequisites:** MVG 212

**Corequisites:** Must currently be pursuing a degree in the performing arts or AFA in Music Education or department chair permission.

Individual 30 (1 credit) or 60 minute (2 credit) weekly music lessons culminating in a solo performance. In the Fall and Spring semesters, this includes 14 lessons plus a jury/final performance. Enrollment is restricted to students pursuing a degree in the performing arts.

#### MVG 214 Guitar-Jazz Lessons VIII (1-2 hrs)

**Prerequisites:** MVG 213

**Corequisites:** Must currently be pursuing a degree in the performing arts or AFA in Music Education or department chair permission.

Individual 30 (1 credit) or 60 minute (2 credit) weekly music lessons culminating in a solo performance. In the Fall and Spring semesters, this includes 14 lessons plus a jury/final performance. Enrollment is restricted to students pursuing a degree in the performing arts.

#### MVG 221 Guitar-Bass Lessons V (1-2)

**Prerequisites:** MVG 121, MVG 122, MVG 123, MVG 124

**Corequisites:** Must currently be pursuing a degree in the performing arts or AFA in Music Education or department chair permission.

Individual 30 (1 credit) or 60 minute (2 credits) weekly music lessons culminating in a solo performance. In the Fall and Spring semesters, this includes 14 lessons plus a jury/final performance. Enrollment is restricted to students pursuing a degree in the performing arts.

#### MVG 222 Guitar-Bass Lessons VI (1-2)

**Prerequisites:** MVG 221

**Corequisites:** Must currently be pursuing a degree in the performing arts or AFA in Music Education or department chair permission.

Individual 30 (1 credit) or 60 minute (2 credits) weekly music lessons culminating in a solo performance. In the Fall and Spring semesters, this includes 14 lessons plus a jury/final performance. Enrollment is restricted to students pursuing a degree in the performing arts.

#### MVG 223 Guitar-Bass Lessons VII (1-2)

**Prerequisites:** MVG 222

**Corequisites:** Must currently be pursuing a degree in the performing arts or AFA in Music Education or department chair permission.

Individual 30 (1 credit) or 60 minute (2 credits) weekly music lessons culminating in a solo performance. In the Fall and Spring

semesters, this includes 14 lessons plus a jury/final performance. Enrollment is restricted to students pursuing a degree in the performing arts.

#### MVG 224 Guitar-Bass Lessons VIII (1-2)

**Prerequisites:** MVG 223

**Corequisites:** Must currently be pursuing a degree in the performing arts or AFA in Music Education or department chair permission.

Individual 30 (1 credit) or 60 minute (2 credits) weekly music lessons culminating in a solo performance. In the Fall and Spring semesters, this includes 14 lessons plus a jury/final performance. Enrollment is restricted to students pursuing a degree in the performing arts.

## MUSIC/PRIVATE LESSONS - PERCUSSION - MVP

#### MVP 101 Percussion Lessons I (1-2 hrs)

**Corequisites:** Must currently be pursuing a degree in the performing arts or AFA in Music Education or department chair permission.

Individual 30 (1 credit) or 60 minute (2 credits) weekly music lessons culminating in a solo performance. In the Fall and Spring semesters, this includes 14 lessons plus a jury/final performance. Enrollment is restricted to students pursuing a degree in the performing arts.

#### MVP 102 Percussion Lessons II (1-2 hrs)

**Prerequisites:** MVP 101

**Corequisites:** Must currently be pursuing a degree in the performing arts or AFA in Music Education or department chair permission.

Individual 30 (1 credit) or 60 minute (2 credits) weekly music lessons culminating in a solo performance. In the Fall and Spring semesters, this includes 14 lessons plus a jury/final performance. Enrollment is restricted to students pursuing a degree in the performing arts.

#### MVP 103 Percussion Lessons III (1-2 hrs)

**Prerequisites:** MVP 102

**Corequisites:** Must currently be pursuing a degree in the performing arts or AFA in Music Education or department chair permission.



MVK 114 Organ  
Lessons IV (1-2 hrs)

**Prerequisites:** MVK 113

**Corequisites:** Must currently be pursuing a degree in the performing arts or AFA in Music Education or department chair permission.

Individual 30 (1 credit) or 60 minute (2 credits) weekly music lessons culminating in a solo performance. In the Fall and Spring semesters, this includes 14 lessons plus a jury/final performance. Enrollment is restricted to students pursuing a degree in the performing arts.

MVK 201 Keyboard  
Lessons V (1-2 hrs)

**Prerequisites:** MVK 104

**Corequisites:** Must currently be pursuing a degree in the performing arts or AFA in Music Education or department chair permission to enroll.

Individual 30 (1 credit) or 60 minute (2 credits) weekly music lessons culminating in a solo performance. In the Fall and Spring semesters, this includes 14 lessons plus a jury/final performance. Enrollment is restricted to students pursuing a degree in the performing arts.

MVK 202 Keyboard  
Lessons VI (1-2 hrs)

**Prerequisites:** MVK 201

**Corequisites:** Must currently be pursuing a degree in the performing arts or AFA in Music Education or department chair permission.

Individual 30 (1 credit) or 60 minute (2 credits) weekly music lessons culminating in a solo performance. In the Fall and Spring semesters, this includes 14 lessons plus a jury/final performance. Enrollment is restricted to students pursuing a degree in the performing arts.

MVK 203 Keyboard  
Lessons VII (1-2 hrs)

**Prerequisites:** MVK 202

**Corequisites:** Must currently be pursuing a degree in the performing arts or AFA in Music Education or department chair permission.

Individual 30 (1 credit) or 60 minute (2 credits) weekly music lessons culminating in a solo performance. In the Fall and Spring semesters, this includes 14 lessons plus a jury/final performance. Enrollment is restricted to students pursuing a degree in the performing arts.

MVK 204 Keyboard  
Lessons VIII (1-2 hrs)

**Prerequisites:** MVK 203

**Corequisites:** Must currently be pursuing a degree in the performing arts or AFA in Music Education or department chair permission.

Individual 30 (1 credit) or 60 minute (2 credits) weekly music lessons culminating in a solo performance. In the Fall and Spring semesters, this includes 14 lessons plus a jury/final performance. Enrollment is restricted to students pursuing a degree in the performing arts.

## MUSIC/PRIVATE LESSONS - STRING - MVS

MVS 131 Violin  
Lessons I (1-2 hrs)

**Corequisites:** Must currently be pursuing a degree in the performing arts or AFA in Music Education or department chair permission.

Individual 30 (1 credit) or 60 minute (2 credits) weekly music lessons culminating in a solo performance. In the Fall and Spring semesters, this includes 14 lessons plus a jury/final performance. Enrollment is restricted to students pursuing a degree in the performing arts.

MVS 132 Violin  
Lessons II (1-2 hrs)

**Prerequisites:** MVS 131

**Corequisites:** Must currently be pursuing a degree in the performing arts or AFA in Music Education or department chair permission.

Individual 30 (1 credit) or 60 minute (2 credits) weekly music lessons culminating in a solo performance. In the Fall and Spring semesters, this includes 14 lessons plus a jury/final performance. Enrollment is restricted to students pursuing a degree in the performing arts.

MVS 133 Violin  
Lessons III (1-2 hrs)

**Prerequisites:** MVS 132

**Corequisites:** Must currently be pursuing a degree in the performing arts or AFA in Music Education or department chair permission.

Individual 30 (1 credit) or 60 minute (2 credits) weekly music lessons culminating in a solo performance. In the Fall and Spring semesters, this includes 14 lessons plus a jury/final performance. Enrollment is restricted to students pursuing a degree in the performing arts.

MVS 134 Violin  
Lessons IV (1-2 hrs)

**Prerequisites:** MVS 133

Fourth enrollment of MVS 131.

MVS 141 Viola  
Lessons I (1-2 hrs)

**Corequisites:** Must currently be pursuing a degree in the performing arts or AFA in Music Education or department chair permission.

Individual 30 (1 credit) or 60 minute (2 credits) weekly music lessons culminating in a solo performance. In the Fall and Spring semesters, this includes 14 lessons plus a jury/final performance. Enrollment is restricted to students pursuing a degree in the performing arts.

MVS 142 Viola  
Lessons II (1-2 hrs)

**Prerequisites:** MVS 141

**Corequisites:** Must currently be pursuing a degree in the performing arts or AFA in Music Education or department chair permission.

Individual 30 (1 credit) or 60 minute (2 credits) weekly music lessons culminating in a solo performance. In the Fall and Spring semesters, this includes 14 lessons plus a jury/final performance. Enrollment is restricted to students pursuing a degree in the performing arts.

MVS 143 Viola  
Lessons III (1-2 hrs)

**Prerequisites:** MVS 142

**Corequisites:** Must currently be pursuing a degree in the performing arts or AFA in Music Education or department chair permission.

Individual 30 (1 credit) or 60 minute (2 credits) weekly music lessons culminating in a solo performance. In the Fall and Spring semesters, this includes 14 lessons plus a jury/final performance. Enrollment is restricted to students pursuing a degree in the performing arts.

MVS 144 Viola  
Lessons IV (1-2 hrs)

**Prerequisites:** MVS 143

**Corequisites:** Must currently be pursuing a degree in the performing arts or AFA in Music Education or department chair permission.

Individual 30 (1 credit) or 60 minute (2 credits) weekly music lessons culminating in a solo performance. In the Fall and Spring semesters, this includes 14 lessons plus a jury/final performance. Enrollment is restricted to students pursuing a degree in the performing arts.

### MVS 151 Cello Lessons I (1-2 hrs)

**Corequisites:** Must currently be pursuing a degree in the performing arts or AFA in Music Education or department chair permission.

Individual 30 (1 credit) or 60 minute (2 credits) weekly music lessons culminating in a solo performance. In the Fall and Spring semesters, this includes 14 lessons plus a jury/final performance. Enrollment is restricted to students pursuing a degree in the performing arts.

### MVS 152 Cello Lessons II (1-2 hrs)

**Prerequisites:** MVS 151

**Corequisites:** Must currently be pursuing a degree in the performing arts or AFA in Music Education or department chair permission.

Individual 30 (1 credit) or 60 minute (2 credits) weekly music lessons culminating in a solo performance. In the Fall and Spring semesters, this includes 14 lessons plus a jury/final performance. Enrollment is restricted to students pursuing a degree in the performing arts.

### MVS 153 Cello Lessons III (1-2 hrs)

**Prerequisites:** MVS 152

**Corequisites:** Must currently be pursuing a degree in the performing arts or AFA in Music Education or department chair permission.

Individual 30 (1 credit) or 60 minute (2 credits) weekly music lessons culminating in a solo performance. In the Fall and Spring semesters, this includes 14 lessons plus a jury/final performance. Enrollment is restricted to students pursuing a degree in the performing arts.

### MVS 154 Cello Lessons IV (1-2 hrs)

**Prerequisites:** MVS 153

**Corequisites:** Must currently be pursuing a degree in the performing arts or AFA in Music Education or department chair permission.

Individual 30 (1 credit) or 60 minute (2 credits) weekly music lessons culminating in a solo performance. In the Fall and Spring semesters, this includes 14 lessons plus a jury/final performance. Enrollment is restricted to students pursuing a degree in the performing arts.

### MVS 161 Bass Lessons I (1-2 hrs)

**Corequisites:** Must currently be pursuing a degree in the performing arts or AFA in Music Education or department chair permission.

Individual 30 (1 credit) or 60 minute (2 credits) weekly music lessons culminating in a solo performance. In the Fall and Spring semesters, this includes 14 lessons plus a jury/final performance. Enrollment is restricted to students pursuing a degree in the performing arts.

### MVS 162 Bass Lessons II (1-2 hrs)

**Prerequisites:** MVS 161

**Corequisites:** Must currently be pursuing a degree in the performing arts or AFA in Music Education or department chair permission.

Individual 30 (1 credit) or 60 minute (2 credits) weekly music lessons culminating in a solo performance. In the Fall and Spring semesters, this includes 14 lessons plus a jury/final performance. Enrollment is restricted to students pursuing a degree in the performing arts.

### MVS 163 Bass Lessons III (1-2 hrs)

**Prerequisites:** MVS 162

**Corequisites:** Must currently be pursuing a degree in the performing arts or AFA in Music Education or department chair permission.

Individual 30 (1 credit) or 60 minute (2 credits) weekly music lessons culminating in a solo performance. In the Fall and Spring semesters, this includes 14 lessons plus a jury/final performance. Enrollment is restricted to students pursuing a degree in the performing arts.

### MVS 164 Bass Lessons IV (1-2 hrs)

**Prerequisites:** MVS 163

**Corequisites:** Must currently be pursuing a degree in the performing arts or AFA in Music Education or department chair permission.

Individual 30 (1 credit) or 60 minute (2 credits) weekly music lessons culminating in a solo performance. In the Fall and Spring semesters, this includes 14 lessons plus a jury/final performance. Enrollment is restricted to students pursuing a degree in the performing arts.

### MVS 231 Violin Lessons V (1-2 credits)

**Prerequisites:** MVS 134

**Corequisites:** Must currently be pursuing a degree in the performing arts or AFA in Music Education or department chair permission.

Individual 30 (1 credit) or 60 minute (2 credits) weekly music lessons culminating in a solo performance. In the Fall and Spring semesters, this includes 14 lessons plus a jury/final performance. Enrollment is restricted to students pursuing a degree in the performing arts.

### MVS 232 Violin Lessons VI (1-2 credits)

**Prerequisites:** MVS 231

**Corequisites:** Must currently be pursuing a degree in the performing arts or AFA in Music Education or department chair permission.

Individual 30 (1 credit) or 60 minute (2 credits) weekly music lessons culminating in a solo performance. In the Fall and Spring semesters, this includes 14 lessons plus a jury/final performance. Enrollment is restricted to students pursuing a degree in the performing arts.

## MUSIC/PRIVATE LESSONS - VOCAL - MVV

### MVV 101 Voice Lessons I (1-2 hrs)

**Corequisites:** Must currently be pursuing a degree in the performing arts or AFA in Music Education or department chair permission.

Individual 30 (1 credit) or 60 minute (2 credits) weekly music lessons culminating in a solo performance. In the Fall and Spring semesters, this includes 14 lessons plus a jury/final performance. Enrollment is restricted to students pursuing a degree in the performing arts.

### MVV 102 Voice Lessons II (1-2 hrs)

**Prerequisites:** MVV 101

**Corequisites:** Must currently be pursuing a degree in the performing arts or AFA in Music Education or department chair permission.

Individual 30 (1 credit) or 60 minute (2 credits) weekly music lessons culminating in a solo performance. In the Fall and Spring semesters, this includes 14 lessons plus a jury/final performance.







Enrollment is restricted to students pursuing a degree in the performing arts.

### MVW 144 Saxophone Lessons IV (1-2 hrs)

**Prerequisites:** MVW 143

**Corequisites:** Must currently be pursuing a degree in the performing arts or AFA in Music Education or department chair permission.

Individual 30 (1 credit) or 60 minute (2 credits) weekly music lessons culminating in a solo performance. In the Fall and Spring semesters, this includes 14 lessons plus a jury/final performance. Enrollment is restricted to students pursuing a degree in the performing arts.

## NURSING - NUR

### NUR 102 Transition to Professional Nursing (5)

**Prerequisites:** Admission into LPN to RN Bridge Program.

**Corequisites:** NUR 112 & NUR122

Ensures thorough understanding of fundamental knowledge necessary of a practical nurse transitioning into the role of a registered nurse. The nursing process as it applies to the responsibilities of a registered nurse is discussed. Expands upon the current practical nursing knowledge by introducing complex nursing concepts relating to fluid dynamics, electrolytes, acid base, renal, and gastrointestinal disorders.

### NUR 102 LPN Bridge to ADN Program (1)

**Prerequisites:** Admission to ADN program.

LPN Bridge to ADN Program will review fundamentals of nursing as they relate to the role transition from licensed practical nurse to registered nurse. Content will be reviewed including nursing process, professional ethics, interdisciplinary relationships, therapeutic communication, nutrition, pharmacology, assessment, medication administration, sterile technique and medication mathematics. *Offered in Fall and Spring.*

### NUR 103 Fundamentals of Professional Nursing (9)

**Prerequisites:** ENG 101, BIO 250A/250B with a grade of B or better and CHM 101/103 with a grade of B or better.

**Corequisites:** NUR 113 & NUR 123

Each human being is presented as a unique individual, constantly responding to internal

and external stimuli. The nursing process is emphasized as students apply principles of physical, biological, and social sciences. Basic nutrition and pharmacology are introduced. Nursing history and elements of health and disease are presented. Professional ethics and interpersonal relations are integrated throughout the course. Basic concepts of nursing are introduced and basic nursing skills are taught and practice in the nursing lab. The student will learn health assessment techniques, with an emphasis on therapeutic communication. *Offered in Fall and Spring.*

### NUR 104 Professional Nursing Across the Lifespan I (11)

**Prerequisites:** BIO 250A/250B and CHM 101/103 with a grade of B or better, ENG 101, PSY 101, NUR 103, NUR 113 & NUR 123.

**Corequisites:** BIO 251A/251B, NUR 114 & NUR 124

Human growth and development is emphasized while studying human adaptive and maladaptive responses to disturbances in nutrition and fluid balance. Illnesses that interfere with these processes throughout the life span are presented with focuses on physiological, psychosocial, and spiritual aspects during each stage of development. Adaptive and maladaptive responses to stressors that interfere with psychosocial homeostasis are presented. Current treatment modalities are emphasized with a historical overview of psychiatric therapy. *Offered in Fall and Spring.*

### NUR 106 Advanced Professional Nursing Across the Lifespan I (5)

**Prerequisites:** NUR 102, NUR 112 & NUR 122

**Corequisites:** NUR 116 & NUR 126

Builds on knowledge gained in NUR-102-Transition to Professional Nursing. Evidence-based nursing knowledge presented will focus on the nursing process encompassing the promotion, maintenance, and restoration of physical and mental health and the prevention of illness for individuals across the lifespan. Emphasis on complex nursing knowledge necessary for the care of individuals with alterations in mental health as well as respiratory, cardiac, neurological, hematological, oncological, and immunological disorders.

### NUR 112 Transition to Professional Nursing Lab(0)

**Prerequisites:** Admission into LPN to RN Bridge Program.

**Corequisites:** NUR 102 & NUR 122

Students demonstrate knowledge of and ability to safely and accurately perform nursing skills in a safe learning environment using multimedia, textbooks, self-direction, demonstrations and lab staff assistance. Included: Vital signs, mobility, medication administration, injections, sterile gloving/personal protective equipment, ostomy care, gastric tubes, IV fluid administration, Foley catheter insertion, and intermediate medication math.

### NUR 113 Fundamentals of Professional Nursing Lab (0)

**Corequisites:** NUR 103 & NUR 123

Students gain comprehensive knowledge and ability to safely and accurately perform nursing skills in a safe learning environment using multimedia, textbooks, self-direction, demonstrations and lab staff assistance. Included: vital signs, hygiene and medical asepsis, assessment, mobility, medication administration, sterile technique, dressing changes and fundamental medication math. *Offered in Fall and Spring.*

### NUR 114 Professional Nursing Across the Lifespan I Lab (0)

**Prerequisites:** NUR 103, NUR 113 & NUR 123

**Corequisites:** NUR 104 & NUR 124

Students gain comprehensive knowledge and ability to safely and accurately perform nursing skills in a safe learning environment using multi-media, textbooks, self-direction, demonstrations and lab staff assistance. Included: urinary catheterization, intravenous fluids administration, nasogastric insertion, enteral feeding, ostomy care, medication administration synthesis and intermediate medication math. *Offered in Fall and Spring.*

### NUR 116 Advanced Professional Nursing Across the Lifespan I Lab (0)

**Prerequisites:** NUR 102, NUR 112, NUR 122

**Corequisites:** NUR 106 & NUR 126

Students demonstrate knowledge of and ability to safely and accurately perform nursing skills in a safe learning environment using multimedia, textbooks, self-direction, demonstrations and lab staff assistance. Included: Vital signs, mobility, medication administration, injections, sterile gloving/personal protective equipment, ostomy care, gastric tubes, IV fluid administration, Foley catheter insertion, and intermediate medication math.

### NUR 122 Professional Nursing Across the Lifespan I Clinical (0)

**Prerequisites:** Admission into LPN to RN Bridge Program.

**Corequisites:** NUR 102 & NUR 112

Students plan, administer, and evaluate nursing care to patients in the simulation setting.

### NUR 123 Fundamentals of Professional Nursing Clinical (0)

**Corequisites:** NUR 103 & NUR 113

Students care for patients in the nursing home and/or hospital/health care center. Ten clinical laboratory hours per week. *Offered in Fall and Spring.*

### NUR 124 Professional Nursing Across the Lifespan I Clinical (0)

**Prerequisites:** NUR 103, NUR 113 & NUR 123

**Corequisites:** NUR 104 & NUR 114

Students plan, administer, and evaluate nursing care to patients in pediatric, geriatric, medical and surgical units. Observation of developmental stages is provided in schools, hospitals/health care centers, and nursing homes. Thirteen clinical laboratory hours per week. *Offered in Fall and Spring.*

### NUR 126 Advanced Professional Nursing Across the Lifespan I Lab (0)

**Prerequisites:** NUR 102, NUR 112, NUR 122

**Corequisites:** NUR 106 & NUR 126

Students plan, administer, and evaluate nursing care to patients in medical-surgical and mental health units in area hospitals/healthcare facilities.

### NUR 200 Registered First Nurse Assistant (3)

This AORN-approved class follows the core curriculum for the RN First Assistant. Six credit hours are awarded upon completion of the course. Three credits are earned through classroom/theory presentation and internship. For eligibility requirements and registration packet, call (636) 922-8280. *Offered in Fall and Spring.*

### NUR 220 RNFA Certification Clinical (3)

**Prerequisites:** NUR 200

Supervised practice by surgeon mentor during actual surgical procedures. Documentation of procedures and activities is required. Must meet minimum clock hours to meet regulating guidelines. *Offered in Fall and Spring.*

### NUR 253 Professional Nursing Across the Lifespan II (10)

**Prerequisites:** BIO 250A/250B, BIO 251A/251B, CHM 101/103, ENG 101, PSY 101, NUR 103, NUR 104, NUR 113, NUR 114, NUR 123 & NUR 124

**Corequisites:** NUR 263, NUR 273 and any two of the following: SOC 101, Any Literature Course or ENG 102, and US History or Government.

The individual is considered as a part of a social unit, the family. The development of sexual roles is presented and the physical, psychosocial and ethno cultural factors that influence it are considered. Adaptive and maladaptive responses of the mother, the neonate and other family members to pregnancy and the birth process are examined. The human body's responses to interferences with oxygenation of tissue are studied as it relates to respiratory, hematological and cardiac systems. Psychological adaptive and maladaptive responses to change in family dynamics and health conditions are considered. *Offered in Fall and Spring.*

### NUR 254 Professional Nursing Across the Lifespan III (11)

**Prerequisites:** BIO 250A/250B, BIO 251A/251B, CHM 101/103, ENG 101, ENG 102 or Any Literature Course, PSY 101, SOC 101, NUR 103, NUR 104, NUR 113, NUR 114, NUR 123, NUR 124, NUR 253, NUR 263 and NUR 273

**Corequisites:** NUR 264 & NUR 274

The patient with problems related to mobility, perception, metabolism and body defense mechanisms is discussed, with emphasis on nurse and patient functioning on a health illness continuum. Included: assessment and neurological, endocrine, integumentary, musculoskeletal and sensory systems. Professional development is continued, as nursing leadership, ethical aspects of nursing care and the legal-professional role of the nurse are discussed. *Offered in Fall and Spring.*

### NUR 255 Advanced Professional Nursing Across the Lifespan II Lab (0)

**Prerequisites:** NUR 106, NUR 116, NUR 126

**Corequisites:** NUR 265 & NUR 275

Builds on knowledge gained in NUR-106 Advanced Professional Nursing Across the Lifespan I. Evidence-based nursing knowledge presented will focus on the nursing process encompassing the promotion, maintenance, and restoration of physical and mental health and the prevention of illness for individuals across the lifespan. Emphasis on complex nursing knowledge necessary for the care of individuals during pregnancy and the birth process as well as pediatric clients during stage of development.

### NUR 256 Advanced Professional Nursing Across the Lifespan III Lab (5)

**Prerequisites:** NUR 255, NUR 265, & NUR 275

**Corequisites:** NUR 266 & NUR 276

Builds on knowledge gained in NUR-255-Advanced Professional Nursing Across the Lifespan II. Evidence-based nursing knowledge presented will focus on the nursing process encompassing the promotion, maintenance, and restoration of physical and mental health and the prevention of illness for individuals across the lifespan. Leadership concepts including professional development, ethical aspects of nursing care, and the legal-professional role of the nurse are discussed. Examination of complex nursing knowledge necessary for the care of individuals experiencing endocrine, integumentary, musculoskeletal, and multi-organ system dysfunction.

### NUR 263 Professional Nursing Across the Lifespan II Lab (0)

**Prerequisites:** BIO 250A/250B, BIO 251A/251B, CHM 101/103, ENG 101, PSY 101, NUR 103, NUR 104, NUR 113, NUR 114, NUR 123 & NUR 124

**Corequisites:** NUR 253 & NUR 273

Students gain comprehensive knowledge and ability to safely and accurately perform nursing skills in a safe learning environment using multi-media, textbooks, self-direction, demonstrations and lab staff assistance. Included: peripheral intravenous therapy, central venous catheters, respiratory care, ECG basics, blood product administration and advanced medication mathematics. *Offered in Fall and Spring.*

### NUR 264 Professional Nursing Across the Lifespan III Lab (0)

**Prerequisites:** BIO 250A/250B, BIO 251A/251B, CHM 101/103, ENG 101, ENG 102 or Any Literature Course, PSY 101, SOC 101, NUR 103, NUR 104, NUR 113, NUR 114, NUR 123, NUR 124, NUR 253, NUR 263 & NUR 273

**Corequisites:** NUR 254 & NUR 274

Students gain comprehensive knowledge and ability to safely and accurately perform nursing skills in a safe learning environment using multimedia, textbooks, self-direction, demonstrations and lab staff assistance. Included: communication and lab staff assistance. Included: communication in the health care setting and prioritizing, delegation and comprehensive medication mathematics. *Offered in Fall and Spring.*

### NUR 265 Advanced Professional Nursing Across the Lifespan II Lab (0)

**Prerequisites:** NUR 106, NUR 116, NUR 126

**Corequisites:** NUR 255 & NUR 275

Students demonstrate knowledge of and ability to safely and accurately perform nursing skills in a safe learning environment using multimedia, textbooks, self-direction, demonstrations and lab staff assistance. Included: IV push medication administration, central line management and dressing change, initiation and maintenance of blood transfusions, and advanced medication math.

### NUR 266 Advanced Professional Nursing Across the Lifespan III Lab (0)

**Prerequisites:** NUR 255, NUR 265 & NUR 275

**Corequisites:** NUR 256 & NUR 276

Students demonstrate knowledge of and ability to safely and accurately perform nursing skills in a safe learning environment using multimedia, textbooks, self-direction demonstrations and lab staff assistance. Included: delegation and prioritization of a complex team of patients, and advanced medication math.

### NUR 273 Professional Nursing Across the Lifespan II Clinical (0)

**Prerequisites:** BIO 250A/250B, BIO 251A/251B, CHM 101/103, ENG 101, PSY 101, NUR 103, NUR 104, NUR 113, NUR 114, NUR 123 & NUR 124

**Corequisites:** NUR 253 & NUR 263

Students plan, administer, and care for patients in labor and delivery, postpartum, and nursery units as well as in medical and surgical units in area hospital/health care facilities. Twelve clinical laboratory hours per week. *Offered in Fall and Spring.*

### NUR 274 Professional Nursing Across the Lifespan III Clinical (0)

**Prerequisites:** BIO 250A/250B, BIO 251A/251B, CHM 101/103, ENG 101, ENG 102 or Any Literature Course, PSY 101, SOC 101, NUR 103, NUR 104, NUR 113, NUR 114, NUR 123, NUR 124, NUR 253, NUR 263 & NUR 273

**Corequisites:** NUR 254 & NUR 264

Gaining independence, students plan, administer, and evaluate total nursing care to patients and begin supervising others giving care. Emphasis is placed upon the nurse and patient functioning in a homeostatic milieu, with consideration of physical, psychosocial, ethnocultural and spiritual aspects of development. A 5-week preceptorship provides transition between student and practitioner. Sixteen clinical laboratory hours per week. *Offered in Fall and Spring.*

### NUR 276 Advanced Professional Nursing Across the Lifespan III Clinical (0)

**Prerequisites:** NUR 255, NUR 265, & NUR 275

**Corequisites:** NUR 256 & NUR 266

Students plan, administer, and evaluate nursing care to patients in critical care units in area hospitals/healthcare facilities. In addition to the care of the complex client, students will be introduced to the charge nurse role during this clinical rotation.

## OCCUPATIONAL THERAPY - OTA

### OTA 105 Fundamentals of OTA I (12)

**Prerequisites:** ENG 101 & MAT 098

**Corequisites:** OTA 115 & OTA 125

Introduction to occupational therapy, including history, philosophy and foundational skills required for OT practice. Context is offered based on the fundamental skills needed in psychosocial dysfunction, physical and cognitive dysfunction, and pediatrics using the Occupational Therapy Practice Framework. Theories guiding OT practice,

values, and ethics of the profession discussed. *Offered in Fall and Spring.*

### OTA 106 Fundamentals of OTA II (12)

**Prerequisites:** OTA 105, OTA 115 & OTA 125

**Corequisites:** OTA 116 & OTA 126

Build on foundation skills needed for OT practice and focuses on fundamental assessment and intervention skills in occupational therapy in psychosocial, physical, cognitive and pediatric dysfunction. Understanding of the OT process of assessment, treatment planning and implementation, transitions and discontinuation of OT services is addressed using the OTPF as a guide. *Offered in Fall and Spring.*

### OTA 115 Kinesiology/ Functional A & P (0)

**Prerequisites:** ENG 101 & MAT 098

**Corequisites:** OTA 105 & OTA 125

Foundation in the biological, physical, and physiological application in the practice of occupational therapy. Students will demonstrate understanding and knowledge of the structure and function of the human body including the musculoskeletal, nervous, cardiovascular, pulmonary, and endocrine systems. Students will apply knowledge for foundational practice skills such as ROM, assessment of muscle control, transfers, vital signs, body mechanics, client positioning and safe handling techniques. *Offered in Fall and Spring.*

### OTA 116 Applied A & P in Health & Disease (0)

**Prerequisites:** OTA 105, OTA 115 & OTA 125

**Corequisites:** OTA 106 & OTA 126

Continuation of the foundational skills practiced in previous coursework. Students use of meaningful activities as defined by OTPF focusing on performance areas that specifically address performance skills such as sensory motor, cognitive and psychosocial components. Assessment and intervention strategies and techniques that emphasize the use of purposeful activities and occupation to enhance role function will be the focus of practical application of these skills. *Offered in Fall and Spring.*

**OTA 125 Occupation Based Activities I (0)****Prerequisites:** ENG 101 & MAT 098**Corequisites:** OTA 105 & OTA 115

Introduction of occupation-based activities and the essential role occupation plays in the delivery of occupational therapy services. Primary emphasis is on the Occupational Therapy Practice Framework and its application in activity analysis and implementation of services. *Offered in Fall and Spring.*

**OTA 126 Occupation Based Activities II (0)****Prerequisites:** OTA 105, OTA 115 & OTA 125**Corequisites:** OTA 106 & OTA 116

Builds on foundational skills and concepts of occupation-based activities and the essential role occupation plays in the delivery of occupational therapy services. The Occupational Therapy Practice Framework and its focus on activity analysis is the basis of practical application for assessment and intervention in clinical and nonclinical settings. *Offered in Fall and Spring.*

**OTA 205 Fundamentals of OTA III (13)****Prerequisites:** OTA 106, OTA 116 & OTA 126**Corequisites:** OTA 215 & OTA 225

Builds on foundational and fundamental skills needed for entry-level occupational therapy practice related to psychosocial, physical, cognitive and pediatrics. Understanding of entry-level competency skills and implementation of OT treatment for demonstrating service competency is emphasized. *Offered in Fall and Spring.*

**OTA 206 OTA Capstone (2)****Prerequisites:** OTA 205, OTA 215 & OTA 225**Corequisites:** OTA 226 & OTA 227

Final phase of professional development and culminating experiences for students in the Occupational Therapy Assistant Program. Provides an opportunity for reflection on the integration of academic coursework and fieldwork experiences and prepares the OTA student to enter the professional realm. *Offered in Fall and Spring.*

**OTA 215 Professional Development/Clinical Competency (0)****Prerequisites:** OTA 106, OTA 116, OTA 126 & MAT 247**Corequisites:** OTA 205 & OTA 225

Builds on foundational and fundamentals skills needed for entry-level competency. Provides specific hands-on laboratory experience focused on demonstrating entry-level competency through student presentations, lab practical examinations and collaborative activities which reinforce foundational and fundamental skills previously practiced. *Offered in Fall and Spring.*

**OTA 225 Occupation Based Activities III (0)****Prerequisites:** OTA 106, OTA 116, OTA 126 & MAT 247**Corequisites:** OTA 205 & OTA 215

Builds on fundamental competency skills and concepts of entry-level practice using occupation-based activities and the essential role occupation plays in the delivery of occupational therapy services. The Occupational Therapy Practice Framework and the AOTA Fieldwork Performance Evaluation will be the basis of practical application for understanding entry-level competency in various clinical and non-clinical settings. *Offered in Fall and Spring.*

**OTA 226 OTA Practicum I (4)****Prerequisites:** OTA 205, OTA 215 & OTA 225**Corequisites:** OTA 206

Level II Fieldwork is the opportunity to practice in the field under direct supervision of a clinical fieldwork educator. This fieldwork rotation is eight weeks of full time clinical practice. Practice emphasis uses the Occupational Therapy Practice Framework as it relates to documentation, facilitation of activities of daily living performance, ROM/MMT, positioning, splinting, functional activities, functional mobility/transfers, treatment planning and addressing environmental barriers. *Offered in Spring and Summer.*

**OTA 227 OTA Practicum II (4)****Prerequisites:** OTA 205, OTA 215 & OTA 225**Corequisites:** OTA 206

Level II Fieldwork is the opportunity to practice in the field under direct supervision of a clinical fieldwork educator. This fieldwork rotation is eight weeks of full time clinical practice. Practice emphasis uses the Occupational Therapy Practice Framework as it relates to documentation, facilitation of activities of daily living performance, ROM/MMT, positioning, splinting, functional activities, functional mobility/transfers, treatment planning and addressing environmental barriers. *Offered in Fall and Spring.*

**PHILOSOPHY - PHL****PHL 101 Introduction to Philosophy (3)**

Introduction to philosophical inquiry and historically important philosophical ideas discussed by classical and/or modern philosophers. Topics may include the nature of love, the foundation of ethical action, the nature and limits of knowledge, the essence of truth, and the meaning of technology in contemporary culture.

**PHL 102 Introduction to Logic (3)**

Study of techniques and methods for identifying, classifying, clarifying, and evaluating various kinds of reasoning and related uses of language.

**PHL 160 Ethics (3)**

Introductory survey of classical and contemporary theories in field of ethics. Questions considered regarding ideal moral life, nature of good and evil, principles for distinguishing right from wrong, and ethical relativism versus objectivism. Discusses selected moral dilemmas of modern living. *Offered in Fall and Spring.*

**PHL 201 World Religion (3)**

Introduction to basic doctrines and stories of seven major religions of the world: Hinduism, Buddhism, Confucianism, Taoism, Judaism, Christianity, and Islam.

**PHL 260 Reason and Religion (3)****Prerequisites:** ENG 101

Examines the tension between Reason and Religion in the Western Tradition on the question of the good life from the Ancient World to the 21st Century. *Contact department chair for course availability.*

PHL 290  
Topics in Philosophy (3)

Seminar style course reflecting specializations in fields of philosophy. Titles may include: The Modern and the Postmodern, Democracy and Philosophy, Phenomenology and Existentialism, and Aesthetics. *Contact department chair for course availability.*

## PHYSICAL SCIENCE - PHY

PHY 105 Environmental  
Geology (3)

Examination of geologic processes and hazards that influence human activities and the geologic aspects of pollution and waste-disposal.

PHY 107 Environmental  
Geology Laboratory (1)

**Corequisites:** PHY 105

Exercises focus on environmental and social issues relevant to environmental problems and the effects of human interaction in geologic processes.

PHY 111 Introduction to  
Physical Science (3)

Introduces the basics in a variety of scientific disciplines including classical (Newtonian) physics, energy, matter and heat, wave behavior, electricity and magnetism, modern physics (the atom and nucleus), geology, and astronomy. Basic high school math/algebra is utilized in portions of this course.

PHY 113 Introduction to  
Physical Science Laboratory (1)

**Corequisites:** PHY 111 (previous or concurrent)

Laboratory reinforces topics discussed in Physical Science lecture (PHY 111) by utilizing hands-on experimentation.

PHY 125 Introduction to  
Physical Geology (3)

Introduces a basic understanding of topics in physical geology including the unifying theory of plate tectonics, discussions of Earth materials (rocks and minerals), internal processes (volcanism, earthquakes), surface processes (surface and ground water, weathering, erosion), and geologic time. Campus outings will be incorporated to emphasize Missouri geology.

PHY 127 Introduction to  
Physical Geology  
Laboratory (1)

**Corequisites:** PHY 125 (previous or concurrent)

Laboratory reinforces topics discussed in Physical Geology lecture (PHY 125) by utilizing practical experimentation and observations.

PHY 130 Astronomy (3)

Nonmathematical introduction to astronomy designed primarily for non-science majors. Topics include the history and cultural impact of astronomy, properties of solar system, and stellar structures. Supplemented by occasional hours of evening observation.

PHY 131 Astronomy  
Laboratory (1)

**Corequisites:** PHY 130 (previous or concurrent)

Analysis and interpretation of astronomical data and observations with telescopes. No prior knowledge of astronomy assumed.

PHY 145 Historical Geology (3)

**Corequisites:** PHY 147

Introduces an understanding of the history of Earth's development including identification and interpretation of sediments, sedimentary rocks and rock structures, environments of deposition, major tectonic and depositional events of North America, and the evolution of life. Campus outings will be incorporated to emphasize Missouri geology.

PHY 147 Historical Geology  
Laboratory (1)

**Corequisites:** PHY 145

Exercises in interpreting Earth's history by examination of sediments, sedimentary rocks, geologic time, and identification and taxonomic classification of fossils.

PHY 150 General Physics I (3)

**Prerequisites:** MAT 150 or MAT 158 or MAT 162 or MAT 168

**Corequisites:** PHY 153

Survey of kinematics, dynamics, energy, momentum, rotational motion, fluids, and thermodynamics. Non-calculus in approach. Three hours of lecture-recitation and two hours of laboratory per week.

PHY 151 General Physics II (3)

**Prerequisites:** PHY 150 and PHY 153

**Corequisites:** PHY 154

Begins with wave motion, but emphasis on electricity and magnetism. Treats geometric and wave optics. Non-calculus in approach. Three hours of lecture-recitation and two hours of laboratory per week.

PHY 153 General Physics I  
Laboratory (1)

**Corequisites:** PHY 150

Experimental component of PHY 150.

PHY 154 General Physics II  
Laboratory (1)

**Prerequisites:** PHY 150 & PHY 153

**Corequisites:** PHY 151

Experimental component for PHY 151.

PHY 210/AGS 210 Soils (3)

**Prerequisites:** CHM 101/103 or CHM 115 with a grade of C or better.

**Corequisites:** PHY 211/AGS 211

Introduction to soil sciences with emphasis placed on physical, biological and chemical properties as related to moisture, temperature, drainage and tillage. Applications including land use, plant growth and environmental problems. Laboratory and computer methods for evaluation of the physical, chemical and biological properties of soil.

PHY 211/AGS 211 Soils Lab (1)

**Prerequisites:** CHM 101/103 or CHM 115 with a grade of C or better.

**Corequisites:** PHY 210/AGS 210

Laboratory and computer methods for evaluation of the physical, chemical and biological properties of soil.

PHY 250  
Engineering Physics I (5)

**Prerequisites:** MAT 180

Calculus-based course that teaches fundamentals of mechanics, heat and sound. First of a two-semester sequence required for physical sciences and engineering degrees.

PHY 251  
Engineering Physics II (5)

**Prerequisites:** MAT 230 & PHY 250

A calculus-based course that teaches the fundamentals of electricity, magnetism and optics. Second in a two-semester sequence required for physical sciences and engineering degrees.

PHY 290 Undergraduate Research (1-3 hrs)

**Prerequisites:** Instructor permission.

Introduction to research techniques and methods used in scientific experimentation.

## POLITICAL SCIENCE - POL

POL 101 American Government (3)

Basic concepts of political science with major emphasis on origin, principles, organization, and nature of American federal system and its politics. POL 101 complies with provisions of Section 170.011 RsMo.

POL 102 State and Local Government (3)

Examines structure, functions, and operation of American state and local government within context of federalism. POL 102 complies with provisions of Section 170.011 RsMo.

POL 201 International Relations (3)

Study of factors shaping relationships among nations with emphasis upon developing nations and economic, political and environmental issues. *Offered in Fall and Spring.*

POL 210 Comparative Politics (3)

Analysis of ideologies, political cultures, and governmental structures of several different countries. Political systems of variety of nations chosen for study. *Offered in Fall and Spring.*

POL 220 Middle Eastern Politics (3)

Survey of Middle Eastern countries as well as regional issues and conflicts. Explores political development of the region, including discussions of Islam, nationalism, and international intervention. *Contact department chair for course availability.*

POL 255 European Politics and Cultures (3)

Field course about European politics, history, and cultures in the context of a study tour. Explores the history of Europe and future of the European and future of the European Union through readings, films, writing assignments, and other activities. Among cultural issues, deals with the question of what is "Europe". Specific course objectives outlined in learning agreement with the instructor. *Contact department chair for course availability.*

POL 280 Modern Britain (3)

An introduction to the major aspects of political/social life in modern Britain: social stratification, the British political infrastructure, and dealing with published materials on British socio-political issues. *Contact department chair for course availability.*

POL 296 Political Science Internship (3)

**Prerequisites:** POL 101 or POL 102 and instructor permission.

**Corequisites:** 2.5 GPA and Sophomore standing.

Students placed in participatory position in government office or community organization. Requires research paper relating to some aspect of internship.

POL 299 Topics in Political Science (3)

Exploration of one topic selected by department. Introduction to research techniques and seminar approved as integral part of scholarship. *Contact department chair for course availability.*

## PRACTICAL NURSING - NPN

NPN 100 Personal and Vocational Concepts (1)

**Prerequisites:** Acceptance into Practical Nursing Program.

**Corequisites:** NPN 101 & NPN 111

Role of LPN in relationship to other members of health care team is presented. Includes nursing history, professional ethics, and interpersonal relations in today's health care setting.

NPN 101 Fundamentals of Practical Nursing Theory (5)

**Prerequisites:** Acceptance into the Practical Nursing Program and BIO 200A/B with a grade of C or better.

**Corequisites:** NPN 100 & NPN 111

Beginning nursing students will acquire a foundation of basic nursing theory and developing clinical skills. Emphasis is on growth and development across the lifespan and the nursing process as students apply principles of biology and physical sciences and social and behavioral sciences. Concepts included: review of relevant anatomy and physiology, nutrition, pharmacology, communication, interpersonal relations, culturally and spiritually sensitive care, client improvement in decision-making and care management and promotion of healthy lifestyles for clients and population. Practical application of the knowledge will occur in the lab component of the course. Technical skills learned will include vital sign assessment, hygiene, medical asepsis, mobility, head-to-toe assessment and medication administration, including medication math. *Offered in Spring only.*

NPN 102 Practical Nursing Across the Lifespan I Theory (9)

**Prerequisites:** NPN 101 & NPN 111

**Corequisites:** NPN 112 & NPN 122

Builds on foundational knowledge gained in NPN 101 – Fundamentals of Practical Nursing. Evidence-based nursing knowledge presented will focus on the nursing process encompassing the promotion, maintenance, and restoration of physical and mental health and the prevention of illness for individuals across the lifespan. Practical application of the knowledge learned will occur in the lab and clinical components of the course. Application based learning of client-centered care focuses on: respect for client differences, values, preferences, and expressed needs, client safety, quality of care, and use of technology to communicate, manage knowledge, mitigate error and support decision making. *Offered in Spring only.*

NPN 111 Fundamentals of Practical Nursing Lab (0)

**Prerequisites:** Acceptance into the Practical Nursing Program.

**Corequisites:** NPN 100 & NPN 101

Beginning nursing students will acquire a foundation of basic nursing theory and



developing clinical skills. Emphasis is on growth and development across the lifespan and the nursing process as students apply principles of biology and physical sciences and social and behavioral sciences. Concepts included: review of relevant anatomy and physiology, nutrition, pharmacology, communication, interpersonal relations, culturally and spiritually sensitive care, client improvement in decision-making and care management and promotion of healthy lifestyles for clients and population. Practical application of the knowledge will occur in the lab component of the course. Technical skills learned will include vital sign assessment, hygiene, medical asepsis, mobility, head-to-toe assessment and medication administration, including medication math. *Offered in Spring only.*

### NPN 112 Practical Nursing Across the Lifespan I Lab (0)

**Prerequisites:** NPN 101 & NPN 111

**Corequisites:** NPN 102 & NPN 122

Builds on foundational knowledge gained in NPN 101 – Fundamentals of Practical Nursing. Evidence-based nursing knowledge presented will focus on the nursing process encompassing the promotion, maintenance, and restoration of physical and mental health and the prevention of illness for individuals across the lifespan. Practical application of the knowledge learned will occur in the lab and clinical components of the course. Application based learning of client-centered care focuses on: respect for client differences, values, preferences, and expressed needs, client safety, quality of care, and use of technology to communicate, manage knowledge, mitigate error and support decision making. *Offered in Spring only.*

### NPN 122 Practical Nursing Across the Lifespan I Clinical (0)

**Prerequisites:** NPN 101 & NPN 111

**Corequisites:** NPN 102 & NPN 112

Builds on foundational knowledge gained in NPN 101 – Fundamentals of Practical Nursing. Evidence-based nursing knowledge presented will focus on the nursing process encompassing the promotion, maintenance, and restoration of physical and mental health and the prevention of illness for individuals across the lifespan. Practical application of the knowledge learned will occur in the lab and clinical components of the course. Application based learning of client-centered care focuses on: respect for client differences, values, preferences, and expressed

needs, client safety, quality of care, and use of technology to communicate, manage knowledge, mitigate error and support decision making. *Offered in Spring only.*

### NPN 151 Practical Nursing Across the Lifespan II Theory (9)

**Prerequisites:** NPN 102, NPN 112 & NPN 122

**Corequisites:** NPN 161 & NPN 171

Builds on foundational knowledge gained in NPN 102 – Practical Nursing Across the Lifespan I. Evidence-based nursing knowledge presented will focus on the nursing process encompassing the promotion, maintenance, and restoration of physical and mental health and the prevention of illness for individuals across the lifespan. Practical application of the knowledge learned will occur in the lab and clinical components of the course. Application based learning of client-centered care focuses on: respect for client differences, values, preferences, and expressed needs, client safety, quality of care, and use of technology to communicate, manage knowledge, mitigate error and support decision making. *Offered in Fall only.*

### NPN 152 Practical Nursing Across the Lifespan III Theory (9)

**Prerequisites:** NPN 151, NPN 161 & NPN 171

**Corequisites:** NPN 162 & NPN 172

Builds on foundational knowledge gained in NPN 151 – Practical Nursing Across the Lifespan II. Emphasis is on practical nursing leadership and management concepts including coordinating and managing continuous client care. Evidence-based nursing knowledge presented will focus on the nursing process encompassing the promotion, maintenance, and restoration of physical and mental health and the prevention of illness for individuals across the lifespan. Practical application of the knowledge learned will occur in the lab and clinical components of the course. Application based learning of client-centered care focuses on: respect for client differences, values, preferences, and expressed needs, client safety, quality of care, and use of technology to communicate, manage knowledge, mitigate error, and support decision making. *Offered in Fall only.*

### NPN 161 Practical Nursing Across the Lifespan II Lab (0)

**Prerequisites:** NPN 102, NPN 112 & NPN 122

**Corequisites:** NPN 151 & NPN 171

Builds on foundational knowledge gained in NPN 102 – Practical Nursing Across the Lifespan I. Evidence-based nursing knowledge presented will focus on the nursing process encompassing the promotion, maintenance, and restoration of physical and mental health and the prevention of illness for individuals across the lifespan. Practical application of the knowledge learned will occur in the lab and clinical components of the course. Application based learning of client-centered care focuses on: respect for client differences, values, preferences, and expressed needs, client safety, quality of care, and use of technology to communicate, manage knowledge, mitigate error and support decision making. *Offered in Fall only.*

### NPN 162 Practical Nursing Across the Lifespan III Lab (0)

**Prerequisites:** NPN 151, NPN 161 & NPN 171

**Corequisites:** NPN 152 & NPN 172

Builds on foundational knowledge gained in NPN 151 – Practical Nursing Across the Lifespan II. Emphasis is on practical nursing leadership and management concepts including coordinating and managing continuous client care. Evidence-based nursing knowledge presented will focus on the nursing process encompassing the promotion, maintenance, and restoration of physical and mental health and the prevention of illness for individuals across the lifespan. Practical application of the knowledge learned will occur in the lab and clinical components of the course. Application based learning of client-centered care focuses on: respect for client differences, values, preferences, and expressed needs, client safety, quality of care, and use of technology to communicate, manage knowledge, mitigate error, and support decision making. *Offered in Fall only.*

### NPN 171 Practical Nursing Across the Lifespan II Clinical (2.5)

**Prerequisites:** NPN 102, NPN 112 & NPN 122

**Corequisites:** NPN 151 & NPN 161

Builds on foundational knowledge gained in NPN 102 – Practical Nursing Across the Lifespan I. Evidence-based nursing knowledge presented will focus on the nursing process encompassing the promotion, maintenance, and restoration of physical and mental health and the prevention of illness for individuals across the lifespan. Practical application of the knowledge learned will occur in the lab and clinical components of the course. Application based learning of client-centered care focuses on: respect for client differences, values, preferences, and expressed needs, client safety, quality of care, and use of technology to communicate, manage knowledge, mitigate error and support decision making. *Offered in Fall only.*

### NPN 172 Practical Nursing Across the Lifespan III Clinical (0)

**Prerequisites:** NPN 151, NPN 161 & NPN 171

**Corequisites:** NPN 152 & NPN 162

Builds on foundational knowledge gained in NPN 151 – Practical Nursing Across the Lifespan II. Emphasis is on practical nursing leadership and management concepts including coordinating and managing continuous client care. Evidence-based nursing knowledge presented will focus on the nursing process encompassing the promotion, maintenance, and restoration of physical and mental health and the prevention of illness for individuals across the lifespan. Practical application of the knowledge learned will occur in the lab and clinical components of the course. Application based learning of client-centered care focuses on: respect for client differences, values, preferences, and expressed needs, client safety, quality of care, and use of technology to communicate, manage knowledge, mitigate error, and support decision making. *Offered in Fall only.*

## PSYCHOLOGY - PSY

### PSY 101 Introduction to Psychology (3)

Examination of behavioral, cognitive, psychoanalytic, humanistic, and biological viewpoints in psychology. Includes learning principles and applications, perception, motivation, emotions, stress, psychobiology, personality, abnormal behavior, and approaches to therapy.

### PSY 201 Child Psychology (3)

**Prerequisites:** PSY 101

Study of human development from conception to adolescence, emphasizing both current and historical approaches to research and theory, genetic and environmental influences on development, and sequence and timing of physical, mental, and personality development throughout years of childhood.

### PSY 210 Human Growth and Development (3)

**Prerequisites:** PSY 101

This course surveys the major areas of human growth and behavior through the eight areas of development, including prenatal and concluding with death and dying. This course emphasizes an understanding of the important methods, terms, theories, and findings in the field of lifespan psychology. This course will introduce you to areas that psychologists explore and study in better understanding the influences of our human experience. By examining these areas, you will gain a better understanding of some aspects of your own behavior.

### PSY 215 Adolescent Psychology (3)

**Prerequisites:** PSY 101

Introduction to physical, mental, personality, and social developments unique to adolescence. Focus mainly on factors influencing normal development, but some abnormal behaviors discussed. Biological, psychological, cultural, and historical perspectives considered. *Offered in Fall and Spring.*

### PSY 216 Abnormal Psychology (3)

**Prerequisites:** PSY 101

This course surveys the history, theories, etiology, assessment, diagnosis, and treatment of the spectrum of psychological disorders such as anxiety disorders, mood disorders, childhood & adolescence disorders. This course will include theories, clinical assessment & diagnosis using DSM V classification system.

### PSY 220 Personality Theories (3)

**Prerequisites:** PSY 101

Study of major theories of personality with emphasis on developmental influence and integration of behavior. Theories surveyed

represent dynamic, humanistic, cognitive, and behavioral perspectives. Issues such as self-concept, structure of personality, social adjustment, self-management, and maladjustment and therapy are considered within context of each theoretical system. *Offered in Fall only.*

### PSY 225 Psychology of Aging (3)

**Prerequisites:** PSY 101

Examination of psychological processes of aging involving sensory, sexual, intellectual, and personality changes in later life with some attention to common mental disorders in the aged. *Offered in Spring only.*

### PSY 230 Social Psychology (3)

**Prerequisites:** PSY 101

Study of social interaction of individuals and psychological principles and concepts involved in these relationships. Discussion of social perceptions, values, attitudes, prejudice, social influence, group dynamics, leadership, and other group processes. *Offered in Fall only.*

### PSY 235 Introduction to Stereotyping, Prejudice and Discrimination (3)

**Prerequisites:** PSY 101 or SOC 101

Focuses on social psychological research examining stereotyping, prejudice and discrimination. The history of human groups is replete with examples of how thoughts, feelings, and treatment of others depend on membership in various social categories. From Black Lives Matter to mansplaining, issues of stereotyping, prejudice, and discrimination grab attention and draw concern. Coursework brings together research from social, cognitive, affective, developmental, cultural and neural perspectives to examine the processes that reflect and perpetuate group biases. Students will read historical, editorial, empirical and theoretical works, and examine real-world phenomena with the goal of understanding the various ways that stereotypes and prejudice can impact intergroup relations. *Offered in Spring only.*

### PSY 240 Introduction to Applied Behavior Analysis (3)

**Prerequisites:** PSY 101

This course is an introduction to applied behavior analysis and the application of behavioral principles and procedures to social challenges. The students will learn about the causes of behavior, basic principles and

procedures, and then apply this information to specific content areas or populations. *Offered in Fall only.*

### PSY 250 Drugs and Behavior (3)

**Prerequisites:** PSY 101

This course will address the many issues related to the use of psychoactive drugs. Students will learn about the biopsychological factors that underlie drug use and abuse while they examine specific individual drugs therapeutic psychoactive properties but also how long-term and/or excessive use modifies brain function. Students will learn how to distinguish between the science of psychopharmacology and the unsubstantiated claims of media, advertising and/or drug culture. *Offered in Fall only.*

### PSY 255 Brain and Behavior (3)

**Prerequisites:** PSY 101

Examination of the human nervous system focusing on the central nervous system, the development and function of nerve cells and the relation between the brain and behavior. Topics include motivation, learning, sensation and perception, movement, emotions and brain dysfunction. *Offered in Spring only.*

### PSY 290 Special Topics in Psychology (1-3 hrs)

Selected studies in the field of psychology. Topics may include: psychological aspects of death, gender, issues in forensic psychology, diversity studies, preparation for marriage, child-rearing practices, and various other issues. Course may be repeated as topics vary by semester.

## READING - RDG

### RDG 080 Spelling I (2)

Individualized course of study presenting words with basic spelling patterns, complicated consonant patterns, and complicated vowel patterns. Word families and rules for addition of word endings included. Programmed learning techniques utilized. *Contact department chair for course availability.* This course does not count toward graduation.

### RDG 081 Spelling II (2)

Individualized course of study presenting words with basic spelling patterns, complicated consonant patterns, and complicated vowel patterns. Word families and rules for addition of word endings included. Programmed learning techniques utilized. *Contact department chair for*

*course availability.* This course does not count toward graduation.

### RDG 083 Vocabulary Improvement (2)

Individualized course that provides programmed learning to guide through elements of vocabulary development. Includes directed practice in context clues, working with visually similar words and homonyms, and learning commonly misunderstood words. *Contact department chair for course availability.* This course does not count toward graduation.

### RDG 085 Reading Fundamentals (3)

**Prerequisites:** Course required based on assessment test reading scores.

This course is designed to help students expand the range of their reading comprehension and vocabulary skills with direct practice. This course does not count toward graduation.

### RDG 090 Vocabulary for College Reading (3)

Directed practice in college vocabulary skills emphasizing communication skills, figures of speech, rhetoric, and clear and concise writing. Course is ESL friendly. *Contact department chair for course availability.* This course does not count toward graduation.

### RDG 092 Reading Improvement (3)

**Prerequisites:** Course required based on assessment test reading scores or RDG 085 with a passing grade.

Directed practice in college reading skills; emphasizes word comprehension skills including context clues, dictionary use, and word components as well as paragraph comprehension skills including locating and inferring information. This course does not count toward graduation.

### RDG 093 Introduction to College Reading (3)

**Prerequisites:** Course required based on assessment test reading scores or RDG 092 with a passing grade.

Provides directed practice in development of college reading skills, emphasizing vocabulary skills, comprehension skills, advanced reading skills, and reading for study. Vocabulary skills include dictionary use, word components and etymology, context clues, and multiple meanings of words. Comprehension skills include main ideas and support words

signaling key concepts. Advanced reading skills include critical reading and reading efficiency. Reading for study includes effective textbook study methods, outlining, study mapping, summarizing, and textbook graphics. This course does not count toward graduation.

### RDG 104 Reading For Non-Native Speakers (4)

**Prerequisites:** INE 101, INE 102 and INE 199 or placement by the ESL chair.

**Corequisites:** ESL 100, ESL 103 and ESL 107

Directed practice in college reading skills emphasizing vocabulary, comprehension, critical thinking, reading efficiency and reading across the curriculum for non-native speaking students. This course will provide students with instruction in reading techniques and vocabulary enhancement. Students need to be present in class to practice skills, work on vocabulary, read, and participate in discussions about the readings. This course will enhance the academic skills of students, as well as provide skills that allow them to comprehend and analyze what is read. In addition, lessons will focus on vocabulary acquisition and application. Attendance and participation in class is essential for success in this course. Student must take the ESL Assessment/Placement test. Student may not receive credit for both RDG 104 and ESL 104.

### RDG 106 Advanced Reading for Non-Native Speakers (3)

**Prerequisites:** ESL 103/COM 100, ESL 100 and ESL 104 with a grade of C or better

**Corequisites:** ESL 105 and recommended corequisite ESL 108.

Directed practice in advanced college reading skills emphasizing discipline specific vocabulary, advanced comprehension, higher level critical thinking skills, improved reading efficiency and reading across the curriculum for second-language students.

### RDG 111 Reading Across the Disciplines (3)

**Prerequisites:** ACT reading test score of 19 or Accuplacer reading test score of 80 or Nelson/Denny reading test score of 204 required.

Focus is on improving reading and thinking skills through skill instruction and extensive guided-practice with academic discipline-based readings. *Contact department chair for course availability.*

### RDG 199 Phonics and Fluency (2)

**Prerequisites:** Placement by ESL Chair or Reading Chair.

**Corequisites:** ESL 101 & ESL 102 unless waived by ESL or Reading Chair.

Focus will be on improving pronunciation and fluency, especially when reading aloud. Activities include spelling and phonics instruction as well as speaking and reading exercises designed to increase reader's fluency and natural voice when reading. A grade of C or better is needed to move into the next ESL class, ESL 104. Emphasis will be on speaking although writing will be part of the class curriculum as well.

## SOCIOLOGY - SOC

### SOC 101 Introduction to Sociology (3)

Examines relationship between individual and society in social structure of modern society. Introduction to way in which sociologists interpret and research human behavior. Covers patterns of social interaction and social influences on individual conduct.

### SOC 102 Introduction to Sociological Theory (3)

Examination of key figures in sociology. Introduction to history of sociology, sociologists, theoretical perspectives, and the classical and contemporary sociological theory and the application of theory to social groups, social interaction, and social institutions. *Contact department chair for course availability.*

### SOC 151 Gerontology I (3)

Overview of normal effects of aging including physical, psychological, and social changes. Problems associated with aging, such as increased dependence, loss of health, financial constraints, loss of friends and spouse, and altered living arrangements. Content presented from perspective of aging person and society as a whole.

### SOC 201 Contemporary Social Issues (3)

**Prerequisites:** Placement into ENG 101 or a passing grade in ENG 096 and reading proficiency or a passing grade in RDG 093.

Study of major social problems facing human groups in modern society such as deviance, inequality, war, and overpopulation. Emphasis placed on social problems that arise as result of institutional fluctuations in economy, family,

government, religion, science, and technology. *Contact department chair for course availability.*

### SOC 202 Sociology of Racial and Ethnic Groups (3)

**Prerequisites:** Placement in ENG 101 or a passing grade in ENG 096; Reading proficiency or a passing grade in RDG 096.

Introductory survey of the interdisciplinary scientific study of race and ethnicity in the United States and globally. The personal, social, political, economic, cultural and historical process that shape and are shaped by race and ethnicity are explored. *Offered in Fall and Spring.*

### SOC 210 Sociology of Health and Healthcare (3)

**Prerequisites:** Placement into ENG 101 or a passing grade in ENG 096 and reading proficiency or a passing grade in RDG 093.

Examination of the social, economic, cultural and individual factors in age related health issues. Topics include epidemiology, social structuring of age, healthcare services, policies and programs, as well as relationships between doctors and patients. *Contact department chair for course availability.*

### SOC 215 Marriage and the Family (3)

**Prerequisites:** Placement into ENG 101 or a Passing grade in ENG 096 and reading proficiency or a Passing grade in RDG 093.

Reviews historical development of the family and patterns of intimate relationships in modern society. Analysis of institution of family in terms of relationship to other institutions in society. Specific topics include love, dating, parenting, families in crisis, and alternative lifestyles.

### SOC 221 Sociology of Art (3)

**Prerequisites:** SOC 101 & ENG 101

**Corequisites:** ART 1001 or ART 1500 (recommended but not required)

Major trends in art examined in relationship to socio-historical developments. Art seen as both comment on and reflection of society. Team taught by sociology instructor and art instructor. *Contact department chair for course availability.*

### SOC 224 Sex, Gender, and Society (3)

**Prerequisites:** Placement into ENG 101 or a passing grade in ENG 096 and reading proficiency or a Passing grade in RDG 093.

Introduction to the sociological study of sex and gender and the social, cultural, political, and historical issues that shape them. Multiple disciplinary perspectives are applied to examine: the relationship between sex and gender; socialization practices that reproduce gender identities; historical changes in sex and gender beliefs and practices; how gender structures the experiences of people in social institutions; the impact of gender on personal identity and social conduct; how other facets of identity like ethnicity, class, and sexuality shape and are shaped by the experience of gender; and the relationship between gender, power, and social inequality. *Offered in Fall and Spring only.*

### SOC 240 Sociology of Education (3)

**Prerequisites:** Passing grade in ENG-096 and RDG-093 or placement in ENG-101 and reading proficiency.

Using sociological perspectives to examine the relationship between schools and society at the institution, interactional and individual levels. Primary focus on the educational system in the United States. Emphasis placed on sociological theories of education, educational policy and issues of educational inequality.

### SOC 241 Sociology Through Literature (3)

**Prerequisites:** SOC 101 & ENG 101 with a passing grade or assess into ENG 102.

Application of sociological concepts to literature to analyze literature as social commentary. Variety of literary selections used to analyze socio-historical events and movements. *Contact department chair for course availability.*

### SOC 251 Aspects of Aging (3)

**Prerequisites:** SOC 101

Focus on social variables and forces that affect the aging process. Topics include sociological theories of aging, technological and social change and effects on environment of older people, and prejudice and discrimination against elderly.

### SOC 290 Readings in Sociology (3)

**Prerequisites:** SOC 101 & ENG 101 with a passing grade.

Exploration of specific social phenomenon of music in society. *Contact department chair for course availability.*

## SPANISH - SPN

### SPN 101 Spanish Language and Culture I (4)

Beginning Spanish course that presents basic language skills of speaking, listening comprehension, reading and writing, with emphasis on effective linguistic functioning in real situations. Opportunity provided for audio-lingual practice outside of class.

### SPN 102 Spanish Language and Culture II (4)

**Prerequisites:** SPN 101 or 1 to 1 1/2 years minimum high school language study. A grade of C or better in the prerequisite course is recommended.

Continuation of Spanish 101.

### SPN 190 Topics in Spanish Language and Culture II (1-3 hrs)

**Prerequisites:** SPN 201 or Instructor permission.

Exploration of special topics and/or activities in 100 level Spanish language and culture. Prerequisite and corequisite dependent on topic. *Contact department chair for course availability.*

### SPN 195 Spanish Language and Civilization Experiences (1-9 hrs)

Involves travel and/or study within Hispanic or Latin American culture area. May have prerequisites and may be repeated for credit. *Contact department chair for course availability.*

### SPN 201 Spanish Language and Culture III (4)

**Prerequisites:** SPN 102 or 1 1/2 to 2 years minimum high school language study. A grade of C or better in the prerequisite course is recommended.

Follow up to SPN 102. Provides expanded opportunities for listening, speaking, reading, and writing. Opportunity provided for audio-lingual practice outside of class. *Offered in Fall and Spring.*

### SPN 202 Spanish Conversation and Composition (4)

**Prerequisites:** SPN 201 or two years minimum high school language study. A grade of C or better in the prerequisite course is recommended.

Intensive one-semester course focusing on conversational skills, grammar review and composition. Exploration of role of Hispanic world. *Offered in Fall and Spring.*

### SPN 215 Reading in Spanish (3)

**Prerequisites:** SPN 201 or two years of high school Spanish. A grade of C or better in the prerequisite course is recommended.

Reading and discussion of various short selections and at least one complete work in the original Spanish. *Offered in Spring only.*

### SPN 220 Latin American Culture and Civilization (3)

**Prerequisites:** SPN 202 or three to four years high school language study. A grade of C or better in the prerequisite course is recommended.

Overview of history, geography, culture and social development of peoples of Latin America. Exercises and activities reinforce and develop Spanish language skills. (Taught in Spanish.) *Contact department chair for course availability.*

### SPN 230 Spanish Culture and Civilization (3)

**Prerequisites:** SPN 202 or three to four years high school language study. A grade of C or better in the prerequisite course is recommended.

Overview of history, geography, culture, and social development of peoples of the Iberian Peninsula. Exercises and activities reinforce and develop Spanish language skills. (Taught in Spanish.) *Contact department chair for course availability.*

### SPN 290 Topics in Intermediate Spanish Language and Culture (1-6 hrs)

**Prerequisites:** Dependent on topic.

**Corequisites:** Dependent on topic.

Exploration of special topics in 200 level Spanish language and culture. Prerequisite and corequisite dependent on topic. *Contact department chair for course availability.*

## THEATRE/FILM - THE

### THE 115 Voice and Diction (3)

**Prerequisites:** COM 101

Study of the development and understanding of respiration, phonation, resonance, articulation, and diction. Student may not receive credit for both COM 116 and THE 115. *Contact department chair for course availability.*

### THE 120 Introduction to Script Analysis (3)

An introduction to the analysis of playscripts for critical examination as well as practical application to production. Students will learn to analyze the dramatic form in plays and apply that analysis to techniques of interpretation for acting, directing, stage management, and theatrical design.

### THE 122 Introduction to Theatre (3)

Emphasizes appreciation of theatre as one of the living arts. Surveys theatre history and dramatic theory from Greeks to present Broadway. Includes lectures, films and discussions on the practitioners and work. Viewing live stage productions OR video recordings of productions that were performed live on stage is required.

### THE 123 Introduction to Cinema (3)

Introduction to history, theory and criticism of film. Explores American and European film traditions. Major genres, authors and artists, and directing and production styles. Viewing of numerous films representative of various genres and directing styles.

### THE 124 History of Film (3)

History of cinema from late 19th century beginnings to present. Attention given its technological, economic and artistic issues. Classic films of various directors and countries. Weekly viewings required.

### THE 126 Major Themes in Film (3)

Focus on film theme. Among possibilities are genre films such as gangster film, the western film and the musical. *Contact department chair for course availability.*

### THE 128 Acting I (3)

Introduction to developing oral and physical communication through exercises,

improvisation and scene work. Theories of acting introduced. Attendance at live theatre productions required. *Offered in Fall and Spring.*

### THE 140 Stagecraft (3)

Introduction to basic fundamentals of stagecraft in scenery, lighting, costumes, and other areas of technical theatre. Emphasis on practical application, with expectation to participate in technical production of college plays. *Offered in Fall only.*

### THE 144 Modern Dance I (2)

A basic movement course emphasizing beginning through intermediate elements, techniques and terminology of modern dance. Emphasis is on expression and creativity.

### THE 146 Jazz Dance I (2)

Introduction to the basic elements, techniques and terminology of jazz dance with emphasis on proper technique to further develop performance ability using movement done to popular music.

### THE 148 Tap Dance I (2)

Introduction to the basic steps of tap technique with emphasis on combinations to develop an understanding of coordination, rhythmic variations and performance skills. Tap shoes are required.

### THE 150 Rehearsal and Production I (1)

**Prerequisites:** Instructor permission/audition.

This course provides initial training and practical hands-on experience in performance, crew work, and all aspects of technical production through active participation in the mounting of departmental productions.

### THE 151 Rehearsal and Production II (1)

**Prerequisites:** THE-150 and Instructor permission/audition.

This course provides secondary training and practical hands-on experience in performance, crew work, and all aspects of technical production through active participation in the mounting of departmental productions.

### THE 199 Theatre Internship (1-3)

**Prerequisites:** Department Chair Permission.

An internship program between various theatrical agencies in which students undertake specific duties that vary from semester to semester.

### THE 210 Oral Interpretation (3)

**Prerequisites:** COM 101

Basic study of the principles of oral interpretation and their application performance. Student may not receive credit for both COM 210 and THE 210. *Contact department chair for course availability.*

### THE 220 Stage Makeup (3)

An introduction to the complexities of stage makeup. Utilizing a hands-on approach, students will become familiar with basic makeup procedures and techniques and will apply the techniques through a series of projects. *Offered in Spring only.*

### THE 221 Introduction to Costuming (3)

An introduction to the fundamental principles and techniques of costume design and construction for the stage. Basic design aspects, maintenance, and sewing techniques are emphasized.

### THE 228 Acting II (3)

**Prerequisites:** THE 128

Continuation of introduction to acting class. More advanced scene work and polishing of audition techniques. Attendance at live theatre production required. *Offered in Spring only.*

### THE 229 Musical Theatre History up to 1943 (3)

Study of American musical theatre from its origins through Rodgers & Hammerstein. Students may not receive credit for both MUS 113 and THE 229. *Offered in Fall only.*

### THE 230 Musical Theatre History since 1943 (3)

Study of American musical theatre from Rodgers and Hammerstein to the present. Students may not receive credit for both MUS 114 and THE 230. *Offered in Spring only.*

### THE 240 Introduction to Theatre Design (3)

**Prerequisites:** THE 140

Introduction to theatre design in areas of scenery, lighting, and costume design.

Exploration of fundamentals of design conception and communication through analysis, research, writing and project work. *Contact department chair for course availability.*

### THE 241 Introduction to Stage Lighting (3)

An introduction to the fundamental principles of stage lighting techniques, practices, equipment, and design. Includes electrical theory, use of dimming systems, and implementation of lighting design.

### THE 242 Introduction to Sound Design (3)

An introduction to the theory and practice of sound design and the use of audio technology for theatrical productions and special events.

### THE 250 Rehearsal and Production III (1)

**Prerequisites:** THE 151 and Instructor permission/audition.

This intermediate lab/studio course will explore various areas of performance, crew work, and all aspects of technical production through active participation in the mounting of departmental productions.

### THE 251 Rehearsal and Production IV (1)

**Prerequisites:** THE 151 and instructor permission/audition.

This advanced lab/studio course will explore various areas of performance, crew work, and all aspects of technical production through active participation in the mounting of departmental productions.

### THE 261 Introduction to Theatre Management (3)

Examines the principles of theatre and other performing arts management as it relates to profit and non-profit entities. Emphasis will be placed on the practical and contemporary aspects of the field, including facility management, budgeting, programming, audience development, fundraising, marketing, staffing and leadership. *Offered in Fall only.*

### THE 262 Introduction to Stage Management (3)

Students will investigate the roles and develop the fundamental skills of a stage manager which are used during pre-production,

rehearsal, and performance of a theatrical production.

### THE 270 Acting Practicum (1-3 hrs)

**Prerequisites:** THE 128 and instructor permission.

Theories and techniques of acting and stagecraft applied in college productions.

### THE 271 Stagecraft Practicum I (1-3 hrs)

**Prerequisites:** THE 140 and instructor permission.

Practical application of technical theatre to college productions.

### THE 276 Theatre Directing Practicum (1-3)

**Prerequisites:** THE 120 and Chair Permission - Must be completed prior to take this course.

Supervised experience in contributing to the rehearsal and stage direction of a theatrical performance.

### THE 277 Stage Management Practicum (1-3)

**Prerequisites:** Chair Permission

Supervised experience in stage management of a theatrical production, from pre-production to performance.

### THE 278 Theatre Design Practicum (1-3)

**Prerequisites:** THE 240 and Chair Permission.

Supervised experience in contributing to the design process of a theatrical production in the areas of set, costume, lighting, sound, or props.

### THE 299 Topics in Theatre (1-3)

This course will be offered on an as needed basis to accommodate special projects. *Offered in Fall and Spring.*

## WELDING - WLD

### WLD 101 Introduction to Welding (3)

**Corequisites:** WLD 111, WLD 121 & WLD 125

This covers basic work, health and safety information involved in the profession of welding, including the interpretation of welding symbols and sketches or drawings, and fabricating parts from sketches or drawings.

### WLD 111 Thermal Cutting (2)

**Corequisites:** WLD 101, WLD 121 & WLD 125

Learn to set up and perform straight square edge, shape square edge and straight bevel edge manual and mechanized oxyfuel gas cuts (OFC) and plasma arc cuts (PAC) on carbon steel, perform OFC scarfing and gouging operations on carbon steel, and inspect and repair equipment used in cutting operations.

### WLD 121 Shielded Metal Arc Welding I (4)

**Corequisites:** WLD 101, WLD 111 & WLD 125

In this course students will learn the basic skills and knowledge needed to set up Shielded Metal Arc Welding (SMAW) equipment, choose appropriate electrodes, and perform SMAW operations on carbon steel.

### WLD 125 Welding Inspection and Testing (2)

**Corequisites:** WLD 101, WLD 111 & WLD 121

This welding class covers weld inspections and weld testing practices for the new welder; including how to examine cut surfaces and edges of prepared base metal parts; how to examine tack, root passes, intermediate layers, and completed welds.

### WLD 131 Gas Metal Arc Welding I (4)

**Prerequisites:** WLD 101, WLD 111, WLD 121 & WLD 125

In this course students will learn the basic skills and knowledge needed to set up Gas Metal Arc Welding (GMAW) equipment, choose appropriate electrodes, and perform GMAW-S and GMAW (spray) operations on carbon steel.

### WLD 141 Flux Cored Arc Welding I (4)

**Prerequisites:** WLD 101, WLD 111, WLD 121 & WLD 125

In this course students will learn the basic skills and knowledge needed to set up Flux Cored Arc Welding (FCAW) equipment, choose appropriate electrodes, and perform FCAW-G/

GM and FCAW-S operations on carbon fuel.

### WLD 151 Gas Tungsten Arc Welding I (4)

**Prerequisites:** WLD 101, WLD 111, WLD 121 & WLD 125

In this course students will learn the basic skills and knowledge needed to set up Gas Tungsten Arc Welding (GTAW) equipment, choose appropriate electrodes and perform GTAW operations on carbon steel, austenitic stainless steel, and aluminum.

### WLD 221 Shielded Metal Arc Welding II (4)

**Prerequisites:** WLD 121

This course expands on the techniques learned in WLD 121. Advanced welding techniques in Shielded Metal Arc Welding (SMAW) required of AWS Advanced level welders will be covered. *Offered in Fall only.*

### WLD 231 Gas Metal Arc Welding II (4)

**Prerequisites:** WLD 131

This course expands on the techniques learned in WLD 131. Advanced welding techniques in Gas Metal Arc Welding (GMAW) required of AWS Advanced level welders will be covered. *Offered in Spring only.*

### WLD 241 Flux Cored Arc Welding II (4)

**Prerequisites:** WLD 141

This course expands on the techniques learned in WLD 141. Advanced welding techniques in Flux Cored Arc Welding (FCAW) required of AWS Advanced level welders will be covered. *Offered in Spring only.*

### WLD 251 Gas Tungsten Arc Welding II (4)

**Prerequisites:** WLD 151

This course expands on the techniques learned in WLD 151. Advanced welding techniques in Gas Tungsten Arc Welding (GTAW) required of AWS Advanced level welders will be covered. *Offered in Fall only.*

