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## Psychology

The psychology program is one of the most established and respected programs within the psychology discipline. It is a computer-based program in which psychology theory and practice receive equal emphasis as applied to both financial and managerial psychology issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's psychology workplace:

- Technical psychology knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the psychology program.

## Courses

Course Number	Course Title	Credits
PSYCH 0485	Personal Biofeedback & Stress Management	1 Credits
PSYCH 1100	General Psychology	3 Credits
PSYCH 1140	Human Sexuality	3 Credits
PSYCH 1150	Adjustment	3 Credits
PSYCH 1180	Introduction to Behavioral Research	4 Credits
PSYCH 1800	Special Project	1-3 Credits
PSYCH 1820	Selected Topics I	1-3 Credits
PSYCH 1840	Independent Study	1-4 Credits
PSYCH 2205	Physiological Psychology	3 Credits
PSYCH 2210	Industrial and Organizational Psychology	3 Credits
PSYCH 2220	Educational Psychology	3 Credits
PSYCH 2230	Developmental Psychology: Childhood	3 Credits
PSYCH 2233	Developmental Psychology: Adolescence	3 Credits
PSYCH 2235	Developmental Psychology: Adulthood	3 Credits
PSYCH 2237	Developmental Psychology: The Life Span	3 Credits
PSYCH 2240	Social Psychology	3 Credits
PSYCH 2255	Personality	3 Credits
PSYCH 2260	Abnormal Psychology	3 Credits

Course Number	Course Title	Credits
PSYCH 2270	Health Psychology	3 Credits
PSYCH 2280	Statistics for the Social and Behavioral	3 Credits
PSYCH 2800	Special Project	1-3 Credits
PSYCH 2820	Advanced Selected Topics I	1-3 Credits
PSYCH 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
PSYCH 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits
PSYCH 2870	Internship (Transfer)	1-4 Credits
PSYCH 2871	Internship - Advanced (Transfer)	1-4 Credits

## Electronics Technology

The electronics technology program is one of the most established and respected programs within the electronics technology discipline. It is a computer-based program in which electronics technology theory and practice receive equal emphasis as applied to both financial and managerial electronics technology issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's electronics technology workplace:

- Technical electronics technology knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the electronics technology program.

## Courses

Course Number	Course Title	Credits
ELECT 1100	Electricity and Electronics Fundamentals	3 Credits
ELECT 1101	Circuits I	3 Credits
ELECT 1102	Circuits II	4 Credits
ELECT 1105	Electricity/Electronics for Mechatronics	3 Credits
ELECT 1110	Introduction to Technology	2 Credits
ELECT 1111	Introduction to Robotics	3 Credits

Course Number	Course Title	Credits
ELECT 1118	Calculus for Electronics	2 Credits
ELECT 1120	Electronic Documentation	2 Credits
ELECT 1130	Electronics Materials and Fabrication	2 Credits
ELECT 1141	Digital Fundamentals	3 Credits
ELECT 1142	Digital Components and Architecture	3 Credits
ELECT 1151	Electronic Devices and Applications	4 Credits
ELECT 1152	Electronic Devices and Applications 2	4 Credits
ELECT 1161	Electronic Communications	4 Credits
ELECT 1162	Electronic Communication 2	4 Credits
ELECT 1201	Renewable Energy Fundamentals	2 Credits
ELECT 1221	Intro- Biomedical Instrumentn Technology	3 Credits
ELECT 1820	Selected Topics I	1-4 Credits
ELECT 1840	Independent Study	1-4 Credits
ELECT 2001	Green Energy Systems	3 Credits
ELECT 2112	Motor Control	3 Credits
ELECT 2201	Applied Electronics	5 Credits
ELECT 2202	Advanced Applied Electronics	5 Credits
ELECT 2205	Electronics Assembly Technology	3 Credits
ELECT 2210	Advanced Calculus for Electronics	2 Credits
ELECT 2215	Smart Grid Fundamentals	3 Credits
ELECT 2220	Elect Instruments Measurements & Control	3 Credits
ELECT 2221	Electronic Instruments, Measurements and	3 Credits
ELECT 2231	Digital Computer Electronics	4 Credits
ELECT 2241	Wireless Telecommunications 1	3 Credits
ELECT 2242	Wireless Telecommunications 2	3 Credits
ELECT 2245	Programmable Logic Devices	4 Credits
ELECT 2255	Industrial Controls	3 Credits
ELECT 2261	Digital Circuits and Systems	4 Credits
ELECT 2262	Introduction to Microprocessors	4 Credits

Course Number	Course Title	Credits
ELECT 2273	Embedded Systems & Microcntrlr Program	3 Credits
ELECT 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
ELECT 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits

## Medical Assistant

The medical assistant program is one of the most established and respected programs within the medical assistant discipline. It is a computer-based program in which medical assistant theory and practice receive equal emphasis as applied to both financial and managerial medical assistant issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's medical assistant workplace:

- Technical medical assistant knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the medical assistant program.

## Courses

Course Number	Course Title	Credits
MASST 1130	Med Assistant Administrative Procedures	3 Credits
MASST 1133	Health Insurance for Medical Assistants	3 Credits
MASST 2211	Legal and Ethical Aspects of Health Care	3 Credits
MASST 2233	Pathophysiology for Med Assisting	3 Credits
MASST 2237	Assisting With Medical Specialties	3 Credits
MASST 2239	Medical Assistant Clinical Procedures	3 Credits
MASST 2245	Workplace Developmt for Medicl Assistant	2 Credits
MASST 2250	Medical Assistant Practicum	3 Credits
MASST 2253	Certified Medical Assistant Exam Prep	1 Credits

## Graphic Design

The graphic design program is one of the most established and respected programs within the graphic design discipline. It is a computer-based program in which graphic design theory and practice receive equal emphasis as applied to both financial and managerial graphic design issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's graphic design workplace:

- Technical graphic design knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the graphic design program.

## Courses

Course Number	Course Title	Credits
GRDSN 1100	Drawing for Design	3 Credits
GRDSN 1101	Print Fundamentals for Designers	3 Credits
GRDSN 1102	Graphic Design 1	3 Credits
GRDSN 1104	Typography	3 Credits
GRDSN 1105	Graphic Design 2	3 Credits
GRDSN 1106	Three-Dimensional Design	3 Credits
GRDSN 1107	Digital Illustration 1	3 Credits
GRDSN 1108	Digital Illustration Design 2	3 Credits
GRDSN 1109	Project Planning for Graphic Design	3 Credits
GRDSN 1820	Selected Topics	2 Credits
GRDSN 1821	Selected Topics	3 Credits
GRDSN 1840	Independent Study	1-4 Credits
GRDSN 2200	User Experience Design	3 Credits
GRDSN 2201	Graphic Design 3	3 Credits
GRDSN 2202	Web/Interactive Design 1	3 Credits
GRDSN 2203	Advertising Design	3 Credits
GRDSN 2204	Digital Illustration 3	3 Credits
GRDSN 2205	Graphic Design 4	3 Credits

Course Number	Course Title	Credits
GRDSN 2206	Web/Interactive Design 2	3 Credits
GRDSN 2208	Portfolio Seminar	3 Credits
GRDSN 2210	Cartooning	3 Credits
GRDSN 2211	Storyboarding/Sequential Art	3 Credits
GRDSN 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
GRDSN 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits

## Nursing

The nursing program is one of the most established and respected programs within the nursing discipline. It is a computer-based program in which nursing theory and practice receive equal emphasis as applied to both financial and managerial nursing issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's nursing workplace:

- Technical nursing knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the nursing program.

## Courses

Course Number	Course Title	Credits
NURSI 1100	Introduction to Health Care	3 Credits
NURSI 1101	Nursing I: Fundamentals	3 Credits
NURSI 1102	Nursing 2: Mental Health	3 Credits
NURSI 1103	Nur 3: Periop/Musculo	3 Credits
NURSI 1104	Introduction to Physical Assessment	1 Credits
NURSI 1105	Medical-Surgical I	7 Credits
NURSI 1120	Role of the Nurse I	1 Credits
NURSI 1130	Introduction to Core Concepts	4 Credits
NURSI 1140	Physical Assessment	2 Credits



Course Number	Course Title	Credits
NURSI 1150	Pathophysiology-Altered Health Concepts	3 Credits
NURSI 1160	Foundations of Pharmacology	2 Credits
NURSI 1204	Nur 4: Integ/Geri/Oncology	4 Credits
NURSI 1205	Nursing 5: Childbearing Family	4 Credits
NURSI 1206	Medical-Surgical 2	3 Credits
NURSI 1207	Childbearing Family	5 Credits
NURSI 1208	Neuropsychiatric Nursing	5 Credits
NURSI 1210	LPN to ADN Transition	4 Credits
NURSI 1220	Health and Illness Concepts I	5 Credits
NURSI 1230	Family Health Concepts I	5 Credits
NURSI 1305	Pharmacotherapeutics	2 Credits
NURSI 1328	Physical Assessment of the Adult Client	2 Credits
NURSI 1840	Independent Study - Individualized	1-4 Credits
NURSI 1901	Medical-Surgical I - Bridge	15 Credits
NURSI 2100	Review of Basic Nursing Skills	0.5 Credits
NURSI 2106	Nursing 6: Cardiac/Respiratory/Hosp ChildyNursing 6:CARDIAC/RESPIRATORY/HOSP Child	4 Credits
NURSI 2107	Nursing 7: Renal/Endocrine	4 Credits
NURSI 2109	Medical-Surgical 3	5 Credits
NURSI 2110	Contemporary Issues in Nursing	2 Credits
NURSI 2120	Health and Illness Concepts II	5 Credits
NURSI 2130	Family Health Concepts II	5 Credits
NURSI 2160	Pharmacology & Disease Processes	1 Credits
NURSI 2201	Medical-Surgical 4	10 Credits
NURSI 2202	Clinical Decision Making	1 Credits
NURSI 2208	Nursing 8: Gi/Neuro/Eye	4 Credits
NURSI 2209	Nursing 9: Heme/Immun/Emerg	3 Credits
NURSI 2210	Nur 10: Community/Burns/Dom Violence	2 Credits
NURSI 2320	Complex Health Problems	5 Credits
NURSI 2330	Role of the Nurse II	1 Credits

Course Number	Course Title	Credits
NURSI 2340	Clinical Decision Making Practicum	3 Credits
NURSI 2350	Nursing Update	7 Credits
NURSI 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
NURSI 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits

## English as a Second Language

The english as a second language program is one of the most established and respected programs within the english as a second language discipline. It is a computer-based program in which english as a second language theory and practice receive equal emphasis as applied to both financial and managerial english as a second language issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's english as a second language workplace:

- Technical english as a second language knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the english as a second language program.

## Courses

Course Number	Course Title	Credits
ESL 0441	Academic ESL Reading I	4 Credits
ESL 0442	Academic ESL Reading II	4 Credits
ESL 0443	Academic ESL Reading III	4 Credits
ESL 0551	Academic ESL Writing I	4 Credits
ESL 0552	Academic ESL Writing II	4 Credits
ESL 0553	Academic ESL Writing III	4 Credits
ESL 0661	Academic ESL Grammar I	4 Credits
ESL 0662	Academic ESL Grammar II	4 Credits
ESL 0663	Academic ESL Grammar III	4 Credits
ESL 0771	Academic ESL Listening/Speaking I	4 Credits

Course Number	Course Title	Credits
ESL 0772	Academic ESL Listening/Speaking II	4 Credits
ESL 0773	Academic ESL Listening/Speaking III	4 Credits
ESL 0820	Selected Topics	2-4 Credits
ESL 0881	Academic ESL Language and Culture I	2-4 Credits
ESL 0882	Academic ESL Language and Culture II	2-4 Credits
ESL 0883	Academic ESL Language and Culture III	2-4 Credits
ESL 0950	ESL Literacy I	1-6 Credits
ESL 0951	ESL Literacy II	1-6 Credits
ESL 0952	Low Beginning ESL	1-6 Credits
ESL 0953	High Beginning ESL	1-6 Credits
ESL 0954	Beginning ESL III	1-5 Credits
ESL 0955	Low Intermediate ESL	1-6 Credits
ESL 0956	High Intermediate ESL	1-6 Credits
ESL 0957	Advanced ESL I	1-5 Credits
ESL 0958	Advanced ESL II	1-5 Credits

## Engineering

The engineering program is one of the most established and respected programs within the engineering discipline. It is a computer-based program in which engineering theory and practice receive equal emphasis as applied to both financial and managerial engineering issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's engineering workplace:

- Technical engineering knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the engineering program.

## Courses

Course Number	Course Title	Credits
ENGIN 1101	Engineering Graphics and Design	3 Credits

Course Number	Course Title	Credits
ENGIN 1820	Selected Topics I	1-3 Credits
ENGIN 1840	Independent Study	1-4 Credits
ENGIN 2201	Statics	3 Credits
ENGIN 2202	Dynamics	3 Credits
ENGIN 2203	Mechanics of Materials	3 Credits
ENGIN 2205	Engineering Thermodynamics	3 Credits
ENGIN 2210	Circuit Analysis and Theory	4 Credits
ENGIN 2213	Introduction to Digital Systems	4 Credits
ENGIN 2820	Advanced Selected Topics I	1-3 Credits
ENGIN 2860	Internship (Career & Technical Ed)	1-4 Credits
ENGIN 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits
ENGIN 2870	Internship (Transfer)	1-4 Credits
ENGIN 2871	Internship - Advanced (Transfer)	1-4 Credits

## Chemistry

The chemistry program is one of the most established and respected programs within the chemistry discipline. It is a computer-based program in which chemistry theory and practice receive equal emphasis as applied to both financial and managerial chemistry issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's chemistry workplace:

- Technical chemistry knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the chemistry program.

## Courses

Course Number	Course Title	Credits
CHEMI 0485	Basic Laboratory and Computation Chemist	3 Credits
CHEMI 1105	Contemporary Chemistry	4 Credits
CHEMI 1137	Concepts and Applications in Nanoscience	4 Credits

Course Number	Course Title	Credits
CHEMI 1205	Intro to Forensic Science & Chemistry	4 Credits
CHEMI 1211	Survey of General Chemistry	5 Credits
CHEMI 1212	Survey of Organic Chemistry	5 Credits
CHEMI 1237	Scientific Concepts - Sustainable Energy	4 Credits
CHEMI 1551	Principles of Chemistry I	5 Credits
CHEMI 1552	Principles of Chemistry II	5 Credits
CHEMI 1800	Special Project	1-3 Credits
CHEMI 1820	Selected Topics I	1-3 Credits
CHEMI 1821	Selected Topics II	3 Credits
CHEMI 1840	Independent Study	1-4 Credits
CHEMI 2213	Introduction to Biochemistry	4 Credits
CHEMI 2551	Organic Chemistry I	5 Credits
CHEMI 2552	Organic Chemistry II	5 Credits
CHEMI 2800	Special Project	1-3 Credits
CHEMI 2820	Advanced Selected Topics I	1-3 Credits
CHEMI 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
CHEMI 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits
CHEMI 2870	Internship (Transfer)	1-4 Credits
CHEMI 2871	Internship - Advanced (Transfer)	1-4 Credits

## Humanities

The humanities program is one of the most established and respected programs within the humanities discipline. It is a computer-based program in which humanities theory and practice receive equal emphasis as applied to both financial and managerial humanities issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's humanities workplace:

- Technical humanities knowledge
- Communication and interpersonal skills
- Career-related computer literacy

- A laptop computer is recommended, but not required, for students entering the humanities program.

## Courses

Course Number	Course Title	Credits
HUMNT 1101	Introduction to Humanities: The Arts	3 Credits
HUMNT 1102	Introduction to Humanities: Ideas and Va	3 Credits
HUMNT 1103	Introduction to World Mythology	3 Credits
HUMNT 1105	Non-Western Humanities	3 Credits
HUMNT 1110	The Arts and Cultural Diversity	3 Credits
HUMNT 1800	Special Project	1-3 Credits
HUMNT 1820	Selected Topics I	3 Credits
HUMNT 1824	Selected Topics in Humanities	2 Credits
HUMNT 1840	Independent Study	1-4 Credits
HUMNT 2019	Women in the Arts	3 Credits
HUMNT 2210	Leadership Development	3 Credits
HUMNT 2800	Special Project	1-3 Credits
HUMNT 2820	Select Topics II	3 Credits
HUMNT 2860	Internship (Career & Technical Ed)	1-4 Credits
HUMNT 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits
HUMNT 2870	Internship (Transfer)	1-4 Credits
HUMNT 2871	Internship - Advanced (Transfer)	1-4 Credits

## Dance

The dance program is one of the most established and respected programs within the dance discipline. It is a computer-based program in which dance theory and practice receive equal emphasis as applied to both financial and managerial dance issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's dance workplace:

- Technical dance knowledge
- Communication and interpersonal skills
- Career-related computer literacy

- A laptop computer is recommended, but not required, for students entering the dance program.

## Courses

Course Number	Course Title	Credits
DANCE 1100	Dance Appreciation	3 Credits
DANCE 1101	Ballet I	1 Credits
DANCE 1102	Ballet II	1 Credits
DANCE 1104	Modern Dance I	1 Credits
DANCE 1105	Modern Dance II	1 Credits
DANCE 1107	Jazz I	1 Credits
DANCE 1108	Jazz II	1 Credits
DANCE 1110	Tap I	0.5-1 Credits
DANCE 1120	Dance Production & Performance	1-3 Credits
DANCE 1122	Choreography & Composition of Dance	2 Credits
DANCE 1130	Dance Pedagogy	3 Credits

## Business

The business program is one of the most established and respected programs within the business discipline. It is a computer-based program in which business theory and practice receive equal emphasis as applied to both financial and managerial business issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's business workplace:

- Technical business knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the business program.

## Courses

Course Number	Course Title	Credits
BUSIN 1100	Introduction to Business	3 Credits
BUSIN 1111	Customer Service	3 Credits

Course Number	Course Title	Credits
BUSIN 1120	Fundamentals of Personal Investing	3 Credits
BUSIN 1161	Entrepreneurship	3 Credits
BUSIN 1170	Electronic Business/Commerce	3 Credits
BUSIN 1800	Special Project	1-4 Credits
BUSIN 1840	Independent Study	1-3 Credits
BUSIN 2200	Business Budgeting	3 Credits
BUSIN 2210	Principles of Finance	3 Credits
BUSIN 2220	Financial Analysis and Valuation	3 Credits
BUSIN 2255	International Business	3 Credits
BUSIN 2800	Special Project	1-4 Credits
BUSIN 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
BUSIN 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits
BUSIN 2870	Internship (Transfer)	1-4 Credits
BUSIN 2871	Internship - Advanced (Transfer)	1-4 Credits

## Italian

The Italian program is one of the most established and respected programs within the Italian discipline. It is a computer-based program in which Italian theory and practice receive equal emphasis as applied to both financial and managerial Italian issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's Italian workplace:

- Technical Italian knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the Italian program.

## Courses

Course Number	Course Title	Credits
ITALI 1100	Civilization and Culture of Italy	3 Credits
ITALI 1101	Elementary Italian I	4 Credits



Course Number	Course Title	Credits
ITALI 1102	Elementary Italian II	4 Credits
ITALI 1840	Independent Study	1-4 Credits
ITALI 2201	Intermediate Italian I	4 Credits
ITALI 2202	Intermediate Italian II	4 Credits
ITALI 2251	Conversation and Composition I	3 Credits
ITALI 2252	Conversation and Composition II	3 Credits
ITALI 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
ITALI 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits
ITALI 2870	Internship (Transfer)	1-4 Credits
ITALI 2871	Internship - Advanced (Transfer)	1-4 Credits

## Automotive Service Technology

The automotive service technology program is one of the most established and respected programs within the automotive service technology discipline. It is a computer-based program in which automotive service technology theory and practice receive equal emphasis as applied to both financial and managerial automotive service technology issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's automotive service technology workplace:

- Technical automotive service technology knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the automotive service technology program.

## Courses

Course Number	Course Title	Credits
AUTO 1040	Automotive for Non-Majors	3 Credits
AUTO 1110	Engine Design and Operation	3 Credits
AUTO 1120	Manual Drive Train and Axles	4 Credits
AUTO 1131	Automotive Basic Electricity	4 Credits

Course Number	Course Title	Credits
AUTO 1140	Suspension, Steering and Alignment	3 Credits
AUTO 1232	Automotive Engine Electricity	4 Credits
AUTO 1240	Braking Systems	4 Credits
AUTO 1250	Automotive Air Conditioning and Heating	4 Credits
AUTO 1261	Engine Controls & Emissions I	4 Credits
AUTO 1840	Independent Study	1-4 Credits
AUTO 2120	Automatic Transmission	3 Credits
AUTO 2133	Automotive Body Electricity	3 Credits
AUTO 2162	Engine Controls and Emissions II	4 Credits
AUTO 2220	Advanced Automotive Drivetrains	3 Credits
AUTO 2280	Automotive Service	6 Credits
AUTO 2345	Automotive Hybrid Technology	2 Credits
AUTO 2364	Automotive ScanTool Usage & Exploration	1 Credits
AUTO 2365	Intro to Diesel Fuel Systems & Emissions	2 Credits
AUTO 2370	A.S.E. Certification Analysis & Tech	2 Credits
AUTO 2840	Experimental/Pilot Class	1-6 Credits
AUTO 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
AUTO 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits

## Electro-Mechanical Technology

The electro-mechanical technology program is one of the most established and respected programs within the electro-mechanical technology discipline. It is a computer-based program in which electro-mechanical technology theory and practice receive equal emphasis as applied to both financial and managerial electro-mechanical technology issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's electro-mechanical technology workplace:

- Technical electro-mechanical technology knowledge
- Communication and interpersonal skills
- Career-related computer literacy

- A laptop computer is recommended, but not required, for students entering the electro-mechanical technology program.

## Courses

Course Number	Course Title	Credits
ELMEC 1101	Survey of Automation	3 Credits
ELMEC 1110	Motor & Generator Fundamentals	3 Credits
ELMEC 1120	Residential Wiring	3 Credits
ELMEC 1130	Industrial Electricity	3 Credits
ELMEC 1140	Commercial and Industrial Wiring	3 Credits
ELMEC 1141	Hydraulics and Pneumatics	3 Credits
ELMEC 1150	National Electrical Code	3 Credits
ELMEC 1171	Introduction to Robotic Technology	3 Credits
ELMEC 1190	Intro to Programmable Logic Controllers	3 Credits
ELMEC 1300	Introduction to Fiber Optics	3 Credits
ELMEC 1400	Maintenance Management Systems	3 Credits
ELMEC 1410	Preventive and Predictive Maintenance	3 Credits
ELMEC 1420	Drive Components	2 Credits
ELMEC 1820	Selected Topics I	1-4 Credits
ELMEC 1840	Independent Study	1-4 Credits
ELMEC 2310	Fiber Optic Applications	3 Credits
ELMEC 2410	Programmable Controller II (PLC II)	3 Credits
ELMEC 2420	Programmable Controller III	3 Credits
ELMEC 2430	Advanced Industrial Automation	3 Credits
ELMEC 2510	Process and Automation Controls	3 Credits
ELMEC 2520	Advanced Process and Automation Controls	3 Credits
ELMEC 2600	Motion Control: Servo & Stepper Motor	2 Credits
ELMEC 2610	Machine Vision & Artificial Intelligence	2 Credits
ELMEC 2620	Critical Thinking in Tech Applications	2 Credits
ELMEC 2630	Systems Troubleshooting	2 Credits
ELMEC 2860	Internship (Career & Technical Ed)	1-4 Credits

Course Number	Course Title	Credits
ELMEC 2863	Internship (Career & Technical Ed)	3 Credits
ELMEC 2864	Internship (Career & Technical Ed)	4 Credits
ELMEC 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits

## Real Estate

The real estate program is one of the most established and respected programs within the real estate discipline. It is a computer-based program in which real estate theory and practice receive equal emphasis as applied to both financial and managerial real estate issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's real estate workplace:

- Technical real estate knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the real estate program.

## Courses

Course Number	Course Title	Credits
REALE 1130	Real Estate Broker Pre-License Topics	5 Credits
REALE 1131	Broker Pre-License Applied Principles	1 Credits
REALE 1134	Real Estate Broker Post-License Topics	1 Credits
REALE 1135	Broker Post-License Applied Practices	1 Credits
REALE 1138	Managing Broker Pre-License Topics	2 Credits
REALE 1139	Brkr Prelicense Management & Supervision	1 Credits
REALE 1152	Basic Appraisal Principles	2 Credits
REALE 1153	Basic Appraisal Procedures	2 Credits
REALE 1154	Uniform Standards of Professional Apprai	1 Credits
REALE 1170	Home Inspection	5 Credits
REALE 1820	Selected Topics I	1-3 Credits
REALE 1840	Independent Study - Individualized	1-4 Credits

## Art

The art program is one of the most established and respected programs within the art discipline. It is a computer-based program in which art theory and practice receive equal emphasis as applied to both financial and managerial art issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's art workplace:

- Technical art knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the art program.

## Courses

Course Number	Course Title	Credits
ART 1100	Introduction to the Visual Arts	3 Credits
ART 1101	Drawing I	3 Credits
ART 1102	Drawing II	3 Credits
ART 1105	Introduction to Studio Art	3 Credits
ART 1140	Introduction to Ceramics	3 Credits
ART 1151	Two-Dimensional Foundations Studio	3 Credits
ART 1152	Three-Dimensional Foundations Studio	3 Credits
ART 1185	Book Arts	2 Credits
ART 1250	Introduction to Jewelry	3 Credits
ART 1800	Special Project	1-4 Credits
ART 1823	Selected Topics in Art	1-3 Credits
ART 1840	Independent Study	1-4 Credits
ART 2201	Life Drawing I	3 Credits
ART 2202	Life Drawing II	3 Credits
ART 2211	Art History I: To 1300	3 Credits
ART 2212	Art History II: 1300-1750	3 Credits
ART 2213	Art History III: 1750 to Present	3 Credits
ART 2214	Introduction to Non-Western Art	3 Credits

Course Number	Course Title	Credits
ART 2215	History of Adornment	3 Credits
ART 2216	Introduction to Philosophy of Art	3 Credits
ART 2221	Painting I	3 Credits
ART 2222	Painting II	3 Credits
ART 2231	Sculpture I	3 Credits
ART 2232	Sculpture II	3 Credits
ART 2235	Introduction to Design Objects	3 Credits
ART 2241	Ceramics I	3 Credits
ART 2242	Ceramics II	3 Credits
ART 2243	Student Art Gallery	2 Credits
ART 2251	Jewelry/Metalsmithing I	3 Credits
ART 2252	Jewelry/Metalsmithing II	3 Credits
ART 2266	Computer Art I	3 Credits
ART 2267	Computer Art II	3 Credits
ART 2275	Intaglio Printmaking	3 Credits
ART 2276	Lithography	3 Credits
ART 2800	Special Project	1-4 Credits
ART 2820	Advanced Selected Topics I	1-3 Credits
ART 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
ART 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits
ART 2870	Internship (Transfer)	1-4 Credits

## Physics

The physics program is one of the most established and respected programs within the physics discipline. It is a computer-based program in which physics theory and practice receive equal emphasis as applied to both financial and managerial physics issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's physics workplace:

- Technical physics knowledge

- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the physics program.

## Courses

Course Number	Course Title	Credits
PHYSI 1100	Physics	4 Credits
PHYSI 1115	Lab Microprocessors and Microcontrollers	1 Credits
PHYSI 1150	Physics and Society	3 Credits
PHYSI 1152	Applications of Physics in Society	3 Credits
PHYSI 1161	Technical Physics I	4 Credits
PHYSI 1162	Technical Physics II	4 Credits
PHYSI 1201	General Physics I	5 Credits
PHYSI 1202	General Physics II	5 Credits
PHYSI 1800	Special Project	1-3 Credits
PHYSI 1820	Selected Topics	1-3 Credits
PHYSI 1840	Independent Study	1-4 Credits
PHYSI 2111	Physics for Science and Engineering I	5 Credits
PHYSI 2112	Physics for Science and Engineering II	5 Credits
PHYSI 2115	Physics for Science and Engineering III	4 Credits
PHYSI 2800	Special Project	1-3 Credits
PHYSI 2820	Advanced Selected Topics	1-3 Credits
PHYSI 2827	Advanced Selected Topics II	1 Credits
PHYSI 2840	Experimental/Pilot Class	1-6 Credits
PHYSI 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
PHYSI 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits
PHYSI 2870	Internship (Transfer)	1-4 Credits
PHYSI 2871	Internship - Advanced (Transfer)	1-4 Credits

## Chinese

The chinese program is one of the most established and respected programs within the chinese discipline. It is a computer-based program in which chinese theory and practice receive equal emphasis as applied to both financial and managerial chinese issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's chinese workplace:

- Technical chinese knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the chinese program.

## Courses

Course Number	Course Title	Credits
CHINE 1100	Civilization and Culture of China	3 Credits
CHINE 1101	Elementary Chinese I	4 Credits
CHINE 1102	Elementary Chinese II	4 Credits
CHINE 1840	Independent Study	1-4 Credits
CHINE 2201	Intermediate Chinese I	4 Credits
CHINE 2202	Intermediate Chinese II	4 Credits
CHINE 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
CHINE 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits
CHINE 2870	Internship (Transfer)	1-4 Credits
CHINE 2871	Internship - Advanced (Transfer)	1-4 Credits

## Botany

The botany program is one of the most established and respected programs within the botany discipline. It is a computer-based program in which botany theory and practice receive equal emphasis as applied to both financial and managerial botany issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's botany workplace:



- Technical botany knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the botany program.

## Courses

Course Number	Course Title	Credits
BOTAN 1310	Ethnobotany	4 Credits
BOTAN 1320	Prairie Ecology	4 Credits
BOTAN 1800	Special Project	1-3 Credits
BOTAN 1820	Selected Topics I	3 Credits
BOTAN 1821	Selected Topics II	1-3 Credits
BOTAN 1840	Independent Study	1-4 Credits
BOTAN 2350	Introduction to Botany	4 Credits
BOTAN 2360	Local Flora	3 Credits
BOTAN 2800	Special Project	1-3 Credits
BOTAN 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
BOTAN 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits
BOTAN 2870	Internship (Transfer)	1-4 Credits
BOTAN 2871	Internship - Advanced (Transfer)	1-4 Credits

## Fire Science

The fire science program is one of the most established and respected programs within the fire science discipline. It is a computer-based program in which fire science theory and practice receive equal emphasis as applied to both financial and managerial fire science issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's fire science workplace:

- Technical fire science knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the fire science program.

## Courses

Course Number	Course Title	Credits
FIRE 1100	Introduction to Fire Science	3 Credits
FIRE 1101	Basic Operations Firefighter- Mod A	6 Credits
FIRE 1102	Basic Operations Firefighter-B	6 Credits
FIRE 1103	Basic Operations Firefighter-C	6 Credits
FIRE 1104	Advanced Technician Firefighter	4 Credits
FIRE 1111	Fire Prevention I	3 Credits
FIRE 1113	Fire Prevention Officer Module A	3 Credits
FIRE 1114	Fire Prevention Officer Module B	3 Credits
FIRE 1115	Fire Prevention Officer Module C	3 Credits
FIRE 1120	Codes and Laws	3 Credits
FIRE 1840	Independent Study	1-4 Credits
FIRE 2201	Extinguishing and Alarm Systems	3 Credits
FIRE 2210	Fire Apparatus	3 Credits
FIRE 2211	Fire Apparatus Engineer	3 Credits
FIRE 2213	Principles/Fire Behavior and Combustion	3 Credits
FIRE 2215	Building Construction	3 Credits
FIRE 2218	Principles/Firefighter Safety & Survival	3 Credits
FIRE 2221	Tactics I	3 Credits
FIRE 2222	Tactics II	3 Credits
FIRE 2230	Hazardous Materials Awareness	3 Credits
FIRE 2231	Hazardous Materials Operations	3 Credits
FIRE 2232	Hazardous Materials Technician A	3 Credits
FIRE 2233	Hazardous Materials Technician B	3 Credits
FIRE 2240	Industrial Safety	3 Credits
FIRE 2251	Fire Leadership I	3 Credits
FIRE 2252	Fire Leadership II	3 Credits
FIRE 2253	Fire Leadership III	3 Credits
FIRE 2254	Fire Leadership IV	3 Credits

Course Number	Course Title	Credits
FIRE 2255	Fire Service Instructor I	3 Credits
FIRE 2256	Fire Service Instructor II	3 Credits
FIRE 2260	Fire Investigation	3 Credits
FIRE 2261	Fire/Arson Investigation I	3 Credits
FIRE 2262	Fire/Arson Investigation II	3 Credits
FIRE 2263	Fire/Arson Investigation III	3 Credits
FIRE 2271	Emergency Medical Technician (EMT)	10 Credits
FIRE 2272	Paramedic Transition	3 Credits
FIRE 2273	Vehicle and Machinery Operations	3 Credits
FIRE 2274	Paramedic I	8 Credits
FIRE 2275	Paramedic II	8 Credits
FIRE 2276	Paramedic III	8 Credits
FIRE 2277	Paramedic IV	8 Credits
FIRE 2282	EMT Instructor Training	3 Credits
FIRE 2283	Emergency Medical Responder	3 Credits
FIRE 2285	Trauma Assessment	3 Credits
FIRE 2286	Pediatric Education for Prehospital Prof	3 Credits
FIRE 2820	Advanced Selected Topics	1-4 Credits
FIRE 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
FIRE 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits

## Speech-Language Pathology Assistant

The speech-language pathology assistant program is one of the most established and respected programs within the speech-language pathology assistant discipline. It is a computer-based program in which speech-language pathology assistant theory and practice receive equal emphasis as applied to both financial and managerial speech-language pathology assistant issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's speech-language pathology assistant workplace:

- Technical speech-language pathology assistant knowledge

- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the speech-language pathology assistant program.

## Courses

Course Number	Course Title	Credits
SLPA 1101	Intro to Speech Language Pathology	4 Credits
SLPA 1105	Phonetics	3 Credits
SLPA 1106	Speech Disorders & Intervention I	4 Credits
SLPA 1107	Speech Disorders & Intervention II	2 Credits
SLPA 1109	Language Development	3 Credits
SLPA 1110	Language Disorders & Intervention	4 Credits
SLPA 1112	Introduction to Audiology	2 Credits
SLPA 1301	Sign Language I	3 Credits
SLPA 1821	Selected Topics II	1 Credits
SLPA 1822	Selected Topics III	2 Credits
SLPA 1840	Independent Study - Individualized	1-4 Credits
SLPA 2101	Clinical Methods and Documentation	4 Credits
SLPA 2102	Professional Issues and the SLPA	4 Credits
SLPA 2104	Augmentative & Alternative Communication	3 Credits
SLPA 2112	Clinical Practicum	6 Credits
SLPA 2301	Sign Language II	3 Credits
SLPA 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
SLPA 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits

## Hospitality & Tourism

The hospitality and tourism program is one of the most established and respected programs within the hospitality and tourism discipline. It is a computer-based program in which hospitality and tourism theory and practice receive equal emphasis as applied to both financial and managerial hospitality and tourism issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue

advanced degrees. Required course work covers areas critical to success in today's hospitality and tourism workplace:

- Technical hospitality and tourism knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the hospitality and tourism program.

## Courses

Course Number	Course Title	Credits
HOSP 1100	Introduction to the Hospitality Industry	3 Credits
HOSP 1101	Introduction to Travel & Tourism	3 Credits
HOSP 1102	Introduction to World Destinations	3 Credits
HOSP 1103	Principles of the Travel Industry	3 Credits
HOSP 1104	Principles of the Tourism Industry	3 Credits
HOSP 1105	Introduction to Resort Management	3 Credits
HOSP 1111	Front Office Operations	3 Credits
HOSP 1112	Hospitality Facilities Management	3 Credits
HOSP 1121	Supervision in the Hospitality Industry	3 Credits
HOSP 1122	Food & Beverage for the Meeting Planner	2 Credits
HOSP 1131	State and National Parks	3 Credits
HOSP 1140	Quality Mgmt of Service in Hospitality	3 Credits
HOSP 1151	Restaurant Service and Sales	2 Credits
HOSP 1161	Travel Geography & Culture-The Americas	3 Credits
HOSP 1162	Travel Geography/Culture - Europe/Africa	3 Credits
HOSP 1163	Travel Geography & Culture-Asia/Pacific	3 Credits
HOSP 1201	Introduction to Wine	2 Credits
HOSP 1202	Old World Wine Traditions	3 Credits
HOSP 1203	New World Wine Advancements	3 Credits
HOSP 1204	Wine and Food Pairing	2 Credits
HOSP 1820	Selected Topics	1-3 Credits
HOSP 1821	Selected Topics II	1 Credits

<b>Course Number</b>	<b>Course Title</b>	<b>Credits</b>
HOSP 1822	Selected Topics III	2 Credits
HOSP 1823	Selected Topics IV	3 Credits
HOSP 1840	Independent Study	1-4 Credits
HOSP 2105	Spa & Recreational Management	3 Credits
HOSP 2130	Hospitality Industry Accounting	3 Credits
HOSP 2131	Contracts & Risk Mgmt for the Planner	3 Credits
HOSP 2203	Professional Catering & Banquet Managemt	3 Credits
HOSP 2204	Wines of the World	2 Credits
HOSP 2210	Global Distribution Systems	3 Credits
HOSP 2229	Revenue, Fares, & E-Ticketing for Travel	3 Credits
HOSP 2230	Law for the Hospitality Industry	2 Credits
HOSP 2231	Airline Operations & Security Procedures	3 Credits
HOSP 2236	Cruise Industry Sales	3 Credits
HOSP 2240	Tour Escorting, Planning and Operations	3 Credits
HOSP 2245	Tour Escorting	3 Credits
HOSP 2250	Sustainable Tourism	3 Credits
HOSP 2253	Meeting and Event Management I	3 Credits
HOSP 2254	Meeting & Event Management II	3 Credits
HOSP 2255	Special Event Management	3 Credits
HOSP 2261	Beverage Management Operation	2 Credits
HOSP 2262	Restaurant Beverage Service: Mixology	2 Credits
HOSP 2275	Hospitality Concept Design	2 Credits
HOSP 2280	Hospitality Marketing Management	3 Credits
HOSP 2285	Advanced Hospitality Operations	3 Credits
HOSP 2290	Adv Meeting & Event Management- Capstone	3 Credits
HOSP 2820	Advanced Selected Topics	1-3 Credits
HOSP 2821	Advanced Selected Topics II	1 Credits
HOSP 2822	Advanced Selected Topics III	2 Credits
HOSP 2860	Internship (Career & Technical Ed)	1-4 Credits

Course Number	Course Title	Credits
HOSP 2862	Internship (Career & Technical Ed)	2 Credits
HOSP 2863	Internship (Career & Technical Ed)	3 Credits
HOSP 2864	Internship (Career & Technical Ed)	4 Credits
HOSP 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits

## Practical Nursing

The practical nursing program is one of the most established and respected programs within the practical nursing discipline. It is a computer-based program in which practical nursing theory and practice receive equal emphasis as applied to both financial and managerial practical nursing issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's practical nursing workplace:

- Technical practical nursing knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the practical nursing program.

## Courses

Course Number	Course Title	Credits
NURSP 1101	Practical Nursing Concepts and Skills I	10 Credits
NURSP 1102	Pharmacology for the Practical Nurse	4 Credits
NURSP 1103	Practical Nursing Concepts and Skills II	5 Credits
NURSP 1104	Practical Nursing Concepts and Skills 3	7 Credits
NURSP 1105	Practical Nurse Role Transition	5 Credits
NURSP 1106	Issues and Trends in Practical Nursing	3 Credits
NURSP 1107	Medical Corpsman to Practical Nurse	6 Credits
NURSP 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
NURSP 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits

# Surgical Technology

The surgical technology program is one of the most established and respected programs within the surgical technology discipline. It is a computer-based program in which surgical technology theory and practice receive equal emphasis as applied to both financial and managerial surgical technology issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's surgical technology workplace:

- Technical surgical technology knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the surgical technology program.

## Courses

Course Number	Course Title	Credits
SURGT 1101	Surgical Technology Concepts I	15 Credits
SURGT 1102	Surgical Technology Concepts II	8 Credits
SURGT 1103	Surgical Technology Concepts III	14 Credits
SURGT 1111	Central Processing Distribution Technichn	4 Credits
SURGT 1820	Selected Topics I	1-3 Credits
SURGT 1840	Independent Study	1-4 Credits
SURGT 2000	Introduction to the Perioperative Arena	4 Credits
SURGT 2001	Perioperative Internship I	2 Credits
SURGT 2002	Perioperative Internship II	2 Credits
SURGT 2501	Surgical Assisting Principles I	18 Credits
SURGT 2502	Surgical Assisting Principles II	12 Credits
SURGT 2503	Surgical Assisting Research & Laboratory	4 Credits
SURGT 2504	Surgical Assisting Clinical Internship	8 Credits
SURGT 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
SURGT 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits



## Culinary Arts

The culinary arts program is one of the most established and respected programs within the culinary arts discipline. It is a computer-based program in which culinary arts theory and practice receive equal emphasis as applied to both financial and managerial culinary arts issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's culinary arts workplace:

- Technical culinary arts knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the culinary arts program.

## Courses

Course Number	Course Title	Credits
CULIN 1101	Quantity Food Preparation I	4 Credits
CULIN 1102	Quantity Food Preparation II	4 Credits
CULIN 1104	Cake Decorating and Confectionery	2 Credits
CULIN 1107	Advanced Decorative Techniques	2 Credits
CULIN 1108	Culinary Measurements & Conversions	2 Credits
CULIN 1109	Nutrition for Food Service Professional	2 Credits
CULIN 1110	Basic Nutrition	3 Credits
CULIN 1115	Foodservice Sanitation License	1 Credits
CULIN 1120	Foodservice Sanitation	2 Credits
CULIN 1155	Restaurant Concept Development	2 Credits
CULIN 1171	Pastry Arts - Baking and Patisserie I	4 Credits
CULIN 1172	Pastry Arts - Baking and Patisserie II	4 Credits
CULIN 1180	Introduction-Culinology & Food Science	3 Credits
CULIN 1185	Elements of Taste and Flavor	3 Credits
CULIN 1186	Food Manufacturing and Processing	2 Credits
CULIN 1800	Special Project	1-3 Credits
CULIN 1822	Selected Topics	3 Credits
CULIN 2000	Food Laws and Regulations	2 Credits

Course Number	Course Title	Credits
CULIN 2111	Specialty & Alternative Baking	3 Credits
CULIN 2152	Food, Beverage and Equipment Purchasing	3 Credits
CULIN 2153	Culinary Arts - Garde Manger	3 Credits
CULIN 2205	Culinary Arts: International Cuisine	3 Credits
CULIN 2206	Culinary Arts: Asian Cuisine	3 Credits
CULIN 2207	Culinary Arts: Mediterranean Cuisine	3 Credits
CULIN 2210	Culinary Arts - Classical Cuisine	4 Credits
CULIN 2273	Pastry Arts: Baking and Patisserie III	4 Credits
CULIN 2860	Internship (Career & Technical Ed)	1-4 Credits
CULIN 2863	Internship (Career & Technical Ed)	3 Credits
CULIN 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits

## Philosophy

The philosophy program is one of the most established and respected programs within the philosophy discipline. It is a computer-based program in which philosophy theory and practice receive equal emphasis as applied to both financial and managerial philosophy issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's philosophy workplace:

- Technical philosophy knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the philosophy program.

## Courses

Course Number	Course Title	Credits
PHILO 1100	Introduction to Philosophy	3 Credits
PHILO 1110	Ethics	3 Credits
PHILO 1112	Biomedical Ethics	3 Credits
PHILO 1114	Business Ethics	3 Credits
PHILO 1116	Environmental Ethics	3 Credits

Course Number	Course Title	Credits
PHILO 1120	Logic	3 Credits
PHILO 1125	Critical Thinking	3 Credits
PHILO 1130	Social and Political Philosophy	3 Credits
PHILO 1150	World Religions	3 Credits
PHILO 1160	History and Philosophy of Education	3 Credits
PHILO 1800	Special Project	1-4 Credits
PHILO 1840	Independent Study - Individualized	1-4 Credits
PHILO 2010	Western Philosophy: Greek-Renaissance	3 Credits
PHILO 2011	Wesn Philosophy: Enlightenment - Present	3 Credits
PHILO 2150	Philosophy of Religion	3 Credits
PHILO 2200	Introduction to Philosophy of Science	3 Credits
PHILO 2250	Introduction to Philosophy of Art	3 Credits
PHILO 2260	Indian Philosophy	3 Credits
PHILO 2800	Special Project	1-4 Credits
PHILO 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
PHILO 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits
PHILO 2870	Internship (Transfer)	1-4 Credits
PHILO 2871	Internship - Advanced (Transfer)	1-4 Credits

## Early Childhood Education & Care

The early childhood education and care program is one of the most established and respected programs within the early childhood education and care discipline. It is a computer-based program in which early childhood education and care theory and practice receive equal emphasis as applied to both financial and managerial early childhood education and care issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's early childhood education and care workplace:

- Technical early childhood education and care knowledge
- Communication and interpersonal skills
- Career-related computer literacy

- A laptop computer is recommended, but not required, for students entering the early childhood education and care program.

## Courses

Course Number	Course Title	Credits
ECEC 1100	Intro to the Early Childhood Profession	3 Credits
ECEC 1101	Growth & Development of the Young Child	3 Credits
ECEC 1102	Child Guidance Practices	3 Credits
ECEC 1110	Parenting and the Young Child	2 Credits
ECEC 1116	Care Infant Toddler & Two-Year Child I	3 Credits
ECEC 1117	Care Infant, Toddler & Two-Year Child II	3 Credits
ECEC 1120	Family Child Care Management	2 Credits
ECEC 1121	Family Child Care Curriculum & Guidance	2 Credits
ECEC 1130	Methods: Discovery & the Physical World	3 Credits
ECEC 1140	Methods: Self-Expression & Social World	3 Credits
ECEC 1151	Lang & Literacy Development Young Child	3 Credits
ECEC 1161	Multicultural Curriculum for Young Child	2 Credits
ECEC 1162	Multicultural Perspectives Child Devlpmt	2 Credits
ECEC 1163	Practicum: At-Risk Early Childhood Prog	1 Credits
ECEC 1820	Selected Topics	1 Credits
ECEC 1840	Independent Study	1-4 Credits
ECEC 2201	Creative Art Activities for the Young Ch	2 Credits
ECEC 2203	Music and Movement for the Young Child	2 Credits
ECEC 2204	Child Care Environment	2 Credits
ECEC 2206	Science and Nature for the Young Child	2 Credits
ECEC 2208	Mathematics Activities for the Young Chi	2 Credits
ECEC 2210	The Young Child With Special Needs	2 Credits
ECEC 2211	Child Health, Safety and Nutrition	3 Credits
ECEC 2220	Early Childhood Education Practicum	4 Credits
ECEC 2226	Development of the School-Age Child	2 Credits
ECEC 2227	Guidance of the School-Age Child	2 Credits

Course Number	Course Title	Credits
ECEC 2228	Activities for School-Age Children	2 Credits
ECEC 2230	Foundations of Early Childhood Education	3 Credits
ECEC 2250	Play and Learning of the Young Child	3 Credits
ECEC 2251	Curriculum Planning for the Young Child	3 Credits
ECEC 2252	Child/Family/Commu Relations & Resources	3 Credits
ECEC 2254	Adm of EC Center-Program Operations	3 Credits
ECEC 2255	Adm of EC Center-Practices & Procedures	3 Credits
ECEC 2256	Adm EC Center-Staff,/Families/Children	3 Credits
ECEC 2260	Early Childhood Professional	3 Credits
ECEC 2821	Advanced Selected Topics I	2 Credits
ECEC 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
ECEC 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits
ECEC 2870	Internship (Transfer)	1-4 Credits

## Heating, Ventilation, Air Conditioning, & Refrigeration

The heating, ventilation, air conditioning, and refrigeration program is one of the most established and respected programs within the heating, ventilation, air conditioning, and refrigeration discipline. It is a computer-based program in which heating, ventilation, air conditioning, and refrigeration theory and practice receive equal emphasis as applied to both financial and managerial heating, ventilation, air conditioning, and refrigeration issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's heating, ventilation, air conditioning, and refrigeration workplace:

- Technical heating, ventilation, air conditioning, and refrigeration knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the heating, ventilation, air conditioning, and refrigeration program.

## Courses

Course Number	Course Title	Credits
HVACR 1100	Refrigeration Principles	3 Credits
HVACR 1105	Intro to Safety, Materials & Equipment	3 Credits
HVACR 1108	Refrigerant Certification	1 Credits
HVACR 1110	Introduction to Controls	3 Credits
HVACR 1112	Residential Refrigeration	3 Credits
HVACR 1161	Introduction to Sheet Metal	2 Credits
HVACR 1180	Introduction to Heating	5 Credits
HVACR 1186	Introduction to Hydronics	2 Credits
HVACR 1187	Central Heating Plants	3 Credits
HVACR 1827	Selected Topics	1 Credits
HVACR 1840	Independent Study	1-4 Credits
HVACR 2201	Residential Air Conditioning	3 Credits
HVACR 2202	Commercial Air Conditioning	3 Credits
HVACR 2205	Heat Pumps	2 Credits
HVACR 2210	Commercial Refrigeration	5 Credits
HVACR 2220	Installation	3 Credits
HVACR 2225	Troubleshooting Systems	3 Credits
HVACR 2230	Advanced Controls	3 Credits
HVACR 2231	Direct Digital Control of HVAC Systems	3 Credits
HVACR 2232	Energy Audits/Economics	2 Credits
HVACR 2236	Central Cooling Plants	3 Credits
HVACR 2240	Load Calculations and Duct Design	5 Credits
HVACR 2241	Industrial Air Conditioning Design	3 Credits
HVACR 2250	System Balancing	2 Credits
HVACR 2260	Heating and Air Conditioning Contracting	3 Credits
HVACR 2860	Internship (Career & Technical Ed)	1-4 Credits
HVACR 2862	Internship (career & Technical Ed)	2 Credits
HVACR 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits

## English

The english program is one of the most established and respected programs within the english discipline. It is a computer-based program in which english theory and practice receive equal emphasis as applied to both financial and managerial english issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's english workplace:

- Technical english knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the english program.

## Courses

Course Number	Course Title	Credits
ENGLI 0480	Preparation for College Reading	4 Credits
ENGLI 0481	Approaches to College Reading I	4 Credits
ENGLI 0482	Approaches to College Reading II	4 Credits
ENGLI 0490	Basic Writing	4 Credits
ENGLI 0491	Approaches to College Writing I	4 Credits
ENGLI 0492	Approaches to College Writing II	4 Credits
ENGLI 1060	Reading & Writing in the Disciplines	1 Credits
ENGLI 1070	ESL Composition Supplement	1 Credits
ENGLI 1080	Effective Workplace Writing	1 Credits
ENGLI 1090	Style Development	1 Credits
ENGLI 1101	English Composition 1	3 Credits
ENGLI 1102	English Composition 2	3 Credits
ENGLI 1105	Writing for the Workplace	3 Credits
ENGLI 1110	Technical Writing	3 Credits
ENGLI 1115	Writing for the Web	3 Credits
ENGLI 1125	Linguistics	3 Credits
ENGLI 1130	Introduction to Literature	3 Credits
ENGLI 1135	Introduction to Film Art	3 Credits

<b>Course Number</b>	<b>Course Title</b>	<b>Credits</b>
ENGLI 1150	Short Fiction	3 Credits
ENGLI 1151	Novel	3 Credits
ENGLI 1152	Poetry	3 Credits
ENGLI 1153	Drama	3 Credits
ENGLI 1154	Film As Literature	3 Credits
ENGLI 1156	Science Fiction	3 Credits
ENGLI 1157	Children's Literature	3 Credits
ENGLI 1158	Bible As Literature	3 Credits
ENGLI 1159	Greek Mythology	3 Credits
ENGLI 1160	Native American Literature	3 Credits
ENGLI 1161	Multicultural Literatures of the U.S.	3 Credits
ENGLI 1165	Literature and Gender	3 Credits
ENGLI 1800	Special Project	1-3 Credits
ENGLI 1820	Selected Topics I	3 Credits
ENGLI 1824	Selected Topics in English	2 Credits
ENGLI 1840	Independent Study	1-4 Credits
ENGLI 2100	Intro to Writing/Reading Center Theory	3 Credits
ENGLI 2126	Modern English Grammar	3 Credits
ENGLI 2210	Literary Journal: Prairie Light Review	1 Credits
ENGLI 2220	British Literature to 1800	3 Credits
ENGLI 2221	British Literature From 1800 Through the	3 Credits
ENGLI 2223	American Lit From Colonial Period to Civ	3 Credits
ENGLI 2224	Amer Literature From Civil War-Present	3 Credits
ENGLI 2226	Masterpieces of World Literature	3 Credits
ENGLI 2227	Modern European Literature	3 Credits
ENGLI 2228	Shakespeare	3 Credits
ENGLI 2250	Introduction to Creative Writing	3 Credits
ENGLI 2251	Fiction Writing	3 Credits
ENGLI 2252	Poetry Writing	3 Credits



Course Number	Course Title	Credits
ENGLI 2253	Creative Nonfiction Writing	3 Credits
ENGLI 2254	Playwriting	3 Credits
ENGLI 2255	Screenwriting for Short Forms	3 Credits
ENGLI 2261	Writing for Publication	3 Credits
ENGLI 2262	Non-Western Literature	3 Credits
ENGLI 2271	Postmodern Fiction and Film	3 Credits
ENGLI 2800	Special Project	1-3 Credits
ENGLI 2820	Topics in Literature	3 Credits
ENGLI 2860	Internship (Career & Technical Ed)	1-4 Credits
ENGLI 2863	Internship (Career & Technical Ed)	3 Credits
ENGLI 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits
ENGLI 2870	Internship (Transfer)	1-4 Credits
ENGLI 2871	Internship - Advanced (Transfer)	1-4 Credits

## Marketing

The marketing program is one of the most established and respected programs within the marketing discipline. It is a computer-based program in which marketing theory and practice receive equal emphasis as applied to both financial and managerial marketing issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's marketing workplace:

- Technical marketing knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the marketing program.

## Courses

Course Number	Course Title	Credits
MARKE 1100	Consumer Marketing	3 Credits
MARKE 1170	Internet & Social Media Marketing	3 Credits
MARKE 1171	Database Marketing	3 Credits

Course Number	Course Title	Credits
MARKE 1175	Customer Relationship Management	3 Credits
MARKE 1820	Selected Topics I	3 Credits
MARKE 1840	Independent Study	1-3 Credits
MARKE 2210	Principles of Marketing	3 Credits
MARKE 2215	Domestic Distribution Channels	3 Credits
MARKE 2220	Principles of Selling	3 Credits
MARKE 2230	Principles of Retail	3 Credits
MARKE 2240	Advertising	3 Credits
MARKE 2250	Business to Business	3 Credits
MARKE 2255	International Logistics	3 Credits
MARKE 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
MARKE 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits

## Religious Studies

The religious studies program is one of the most established and respected programs within the religious studies discipline. It is a computer-based program in which religious studies theory and practice receive equal emphasis as applied to both financial and managerial religious studies issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's religious studies workplace:

- Technical religious studies knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the religious studies program.

## Courses

Course Number	Course Title	Credits
RELIG 1100	Introduction to Religion	3 Credits
RELIG 1110	Intro to the Bible (Old Testament)	3 Credits
RELIG 1120	Intro to the Bible (New Testament)	3 Credits

Course Number	Course Title	Credits
RELIG 1150	World Religions	3 Credits
RELIG 1155	Asian Thought	3 Credits
RELIG 1820	Selected Topics I	1-3 Credits
RELIG 1840	Independent Study	1-4 Credits
RELIG 2160	Judaism, Christianity and Islam	3 Credits
RELIG 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
RELIG 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits
RELIG 2870	Internship (Transfer)	1-4 Credits
RELIG 2871	Internship - Advanced (Transfer)	1-4 Credits

## Biology

The biology program is one of the most established and respected programs within the biology discipline. It is a computer-based program in which biology theory and practice receive equal emphasis as applied to both financial and managerial biology issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's biology workplace:

- Technical biology knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the biology program.

## Courses

Course Number	Course Title	Credits
BIOLO 0470	Biology Study Skills	1 Credits
BIOLO 1100	Survey of Biology	4 Credits
BIOLO 1110	Environmental Biology	4 Credits
BIOLO 1120	Introduction to Genetics	3 Credits
BIOLO 1130	Fundamentals of Biotechnology	4 Credits
BIOLO 1140	Introduction to Biology of Aging	3 Credits
BIOLO 1151	Principles of Biological Science I	5 Credits

Course Number	Course Title	Credits
BIOLO 1152	Principles of Biological Science	5 Credits
BIOLO 1800	Special Project	1-3 Credits
BIOLO 1820	Selected Topics I	3 Credits
BIOLO 1821	Selected Topics II	3 Credits
BIOLO 1840	Independent Study	1-4 Credits
BIOLO 2150	Ecology	4 Credits
BIOLO 2151	Cell Biology	4 Credits
BIOLO 2800	Special Project	1-3 Credits
BIOLO 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
BIOLO 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits
BIOLO 2870	Internship (Transfer)	1-4 Credits
BIOLO 2871	Internship - Advanced (Transfer)	1-4 Credits

## General Education Development

The general education development program is one of the most established and respected programs within the general education development discipline. It is a computer-based program in which general education development theory and practice receive equal emphasis as applied to both financial and managerial general education development issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's general education development workplace:

- Technical general education development knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the general education development program.

## Courses

Course Number	Course Title	Credits
GED 0800	General Education Development Review	3 Credits
GED 0801	Spanish General Education Development Re	3 Credits

Course Number	Course Title	Credits
GED 0802	Bridge to Health Care Careers	6 Credits
GED 0805	GED Bridge to CIT	6 Credits
GED 0830	GED Review: US/IL Constitution	1 Credits

## Russian

The Russian program is one of the most established and respected programs within the Russian discipline. It is a computer-based program in which Russian theory and practice receive equal emphasis as applied to both financial and managerial Russian issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's Russian workplace:

- Technical Russian knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the Russian program.

## Courses

Course Number	Course Title	Credits
RUSSI 1101	Elementary Russian I	4 Credits
RUSSI 1102	Elementary Russian II	4 Credits
RUSSI 1840	Independent Study	1-4 Credits
RUSSI 2201	Intermediate Russian I	4 Credits
RUSSI 2202	Intermediate Russian II	4 Credits
RUSSI 2860	Internship (Career & Technical Ed)/Coop Ed/Internship Occup	1-4 Credits
RUSSI 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits
RUSSI 2870	Internship (Transfer)	1-4 Credits
RUSSI 2871	Internship - Advanced (Transfer)	1-4 Credits

## Adult Basic Education

The adult basic education program is one of the most established and respected programs within the adult basic education discipline. It is a computer-based program in which adult basic education

theory and practice receive equal emphasis as applied to both financial and managerial adult basic education issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's adult basic education workplace:

- Technical adult basic education knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the adult basic education program.

## Courses

Course Number	Course Title	Credits
ABE 0700	Reading Skills Development I	3 Credits
ABE 0701	Reading Skills Development II	3 Credits
ABE 0702	Pre-GED Reading Skills I	3 Credits
ABE 0703	Pre-GED Reading Skills II	3 Credits
ABE 0710	Basic English Skills I	3 Credits
ABE 0711	Basic English Skills II	3 Credits
ABE 0720	Basic Mathematical Skills I	3 Credits
ABE 0721	Pre-GED Mathematical Skills II	3 Credits

## Computer Information Systems

The computer information systems program is one of the most established and respected programs within the computer information systems discipline. It is a computer-based program in which computer information systems theory and practice receive equal emphasis as applied to both financial and managerial computer information systems issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's computer information systems workplace:

- Technical computer information systems knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the computer information systems program.

## Courses

Course Number	Course Title	Credits
CIS 0800	Learning Computer Basics	3 Credits
CIS 1110	Using Computers: An Introduction	2 Credits
CIS 1120	The Internet	2 Credits
CIS 1130	Windows Basics	2 Credits
CIS 1140	Web Technologies & Cloud Computing	3 Credits
CIS 1150	Intro to Computer Information Systems	3 Credits
CIS 1160	Windows Command Line	2 Credits
CIS 1180	Introduction to Networking	3 Credits
CIS 1199	Introduction to Game Industry	3 Credits
CIS 1200	Game Design	3 Credits
CIS 1201	Advanced Game Design	3 Credits
CIS 1205	Office Ste SOFTWARE and Integration	3 Credits
CIS 1211	2D Game Development	3 Credits
CIS 1221	Introduction to Spreadsheets	3 Credits
CIS 1222	Advanced Spreadsheets	2 Credits
CIS 1230	Microcomputer Database Application	3 Credits
CIS 1240	Presentation Graphics - Windows Based	2 Credits
CIS 1250	Intro to Project Management Software	2 Credits
CIS 1270	IT Proposals and Presentations	2 Credits
CIS 1300	Web Design Software	3 Credits
CIS 1310	HTML and CSS	3 Credits
CIS 1315	Web Development for Educators	3 Credits
CIS 1400	Programming Logic and Technique	4 Credits
CIS 1450	Intro to Linux/Unix Operating Systems	3 Credits
CIS 1510	Graphical User Interface Programming	4 Credits
CIS 1600	Fundamental Principles Operating Systems	3 Credits
CIS 1610	Windows Client OS	3 Credits
CIS 1611	Windows Vista Administration	3 Credits

Course Number	Course Title	Credits
CIS 1620	Windows Server OS	3 Credits
CIS 1630	Windows Server Active Directory (AD)	3 Credits
CIS 1660	Managing Microsoft Windows Server Netwk	3 Credits
CIS 1670	Planning a Microsoft Win Server Network	3 Credits
CIS 1820	Selected Topics	1-3 Credits
CIS 1840	Independent Study	1-4 Credits
CIS 2211	2D Game Scripting	3 Credits
CIS 2212	3D Game Development	3 Credits
CIS 2213	Advanced 3D Game Development	3 Credits
CIS 2220	Game Programming Using C++	3 Credits
CIS 2230	Simulation and Serious Game Design	3 Credits
CIS 2240	Cross-Platform Game Design	3 Credits
CIS 2250	Multiplatform Game Programming	3 Credits
CIS 2252	Advanced Multiplatform Game Programming	3 Credits
CIS 2260	Game Programming Cross-Platform	3 Credits
CIS 2320	JavaScript and Advanced HTML	3 Credits
CIS 2330	Introduction to XML	3 Credits
CIS 2331	Advanced XML	3 Credits
CIS 2335	AJAX	4 Credits
CIS 2340	Common Gateway Interface (CGI)/Perl	4 Credits
CIS 2350	Introduction to ASP.NET	4 Credits
CIS 2360	Intro to PHP Programming Language	4 Credits
CIS 2411	Introduction to COBOL Programming	4 Credits
CIS 2420	Microprocessor Assembly Language	4 Credits
CIS 2430	Mainframe Assembly Language	4 Credits
CIS 2440	Shell Programming for Unix/Linux	3 Credits
CIS 2450	UNIX System Administration	3 Credits
CIS 2455	LINUX System Administration	3 Credits
CIS 2480	FORTTRAN for Scientific Programming Appl	3 Credits



Course Number	Course Title	Credits
CIS 2485	C++ for Science and Engineering	3 Credits
CIS 2510	Adv Graphical User Interface Programming	4 Credits
CIS 2521	Visual Basic .NET I	4 Credits
CIS 2541	C++ Language Programming	4 Credits
CIS 2542	Adv C++ With Data Structure Application	4 Credits
CIS 2551	Introduction to MS Visual C++ .NET Prog	4 Credits
CIS 2552	Object-Oriented Program Development With	4 Credits
CIS 2561	Introduction to C# .NET	4 Credits
CIS 2562	Advanced C# Programming	4 Credits
CIS 2571	Introduction to Java	4 Credits
CIS 2572	Collections in Java	4 Credits
CIS 2573	Advanced Java Technologies	4 Credits
CIS 2591	Objective C	4 Credits
CIS 2592	iPhone/iPad Development	4 Credits
CIS 2593	Android Application Development	4 Credits
CIS 2594	Adv iPhone/iPad Application Development	3 Credits
CIS 2595	Advanced Android Application Development	4 Credits
CIS 2610	Network Security	3 Credits
CIS 2620	Exchange Server	3 Credits
CIS 2630	MS SQL Server Administration	3 Credits
CIS 2650	MS Sharepoint Portal	3 Credits
CIS 2710	Database Management	4 Credits
CIS 2720	Structured Query Language (SQL) I	3 Credits
CIS 2725	Enterprise SQL Application	3 Credits
CIS 2730	Enterprise Database Development	3 Credits
CIS 2770	Introduction to System Analysis & Design	3 Credits
CIS 2775	Information Technology Project Management	3 Credits
CIS 2790	Systems Analyst Simulation	3 Credits
CIS 2840	Experimental/Pilot Class	1-6 Credits

Course Number	Course Title	Credits
CIS 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
CIS 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits

## Motion Picture/Television

The motion picture/television program is one of the most established and respected programs within the motion picture/television discipline. It is a computer-based program in which motion picture/television theory and practice receive equal emphasis as applied to both financial and managerial motion picture/television issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's motion picture/television workplace:

- Technical motion picture/television knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the motion picture/television program.

## Courses

Course Number	Course Title	Credits
MPTV 1011	Intro to Motion Pictures & Television	3 Credits
MPTV 1020	Editing for Motion Pictures & Television	3 Credits
MPTV 1022	Audio for Motion Pictures and Television	3 Credits
MPTV 1111	Film/Video Aesthetics	3 Credits
MPTV 1113	Film History	3 Credits
MPTV 1120	Cinematography	3 Credits
MPTV 1213	History of Television	3 Credits
MPTV 1220	Intro to Television Studio Production	3 Credits
MPTV 1222	Writing for Television	3 Credits
MPTV 1311	Introduction to Animation	3 Credits
MPTV 1313	History of Animation	3 Credits
MPTV 1320	Experimental Animation	3 Credits

<b>Course Number</b>	<b>Course Title</b>	<b>Credits</b>
MPTV 1324	Motion Graphics and Special Effects I	3 Credits
MPTV 1422	Writing & Reporting for TV News I	3 Credits
MPTV 1423	Announcing and Performing Broadcast News	3 Credits
MPTV 1431	Intro to Field Production & Editing	3 Credits
MPTV 1800	Special Project	1-3 Credits
MPTV 1820	Selected Topics I	3 Credits
MPTV 1822	Selected Topics II	3 Credits
MPTV 1823	Selected Topics III	3 Credits
MPTV 1840	Independent Study	1-4 Credits
MPTV 2022	Screenwriting for Short Forms	3 Credits
MPTV 2031	Pre-Production for Motion Picture & TV	3 Credits
MPTV 2131	Film/Video Production	3 Credits
MPTV 2133	Directing for Film/Video	3 Credits
MPTV 2134	On-Location TV Production	3 Credits
MPTV 2140	Advanced Film/Video Production	3 Credits
MPTV 2231	TV News Field Production	3 Credits
MPTV 2233	Documentary Production	3 Credits
MPTV 2240	Advanced Television Production	3 Credits
MPTV 2331	3-D Animation I	3 Credits
MPTV 2333	Motion Graphics and Special Effects II	3 Credits
MPTV 2340	Three-Dimensional Animation II	3 Credits
MPTV 2342	Animation Portfolio	3 Credits
MPTV 2422	Writing and Reporting II	3 Credits
MPTV 2431	Television News Producing	3 Credits
MPTV 2440	Advanced On-Air Broadcasting	3 Credits
MPTV 2820	Advanced Selected Topics I	3 Credits
MPTV 2822	Advanced Selected Topics II	3 Credits
MPTV 2823	Advanced Selected Topics III	3 Credits
MPTV 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits

Course Number	Course Title	Credits
MPTV 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits

## Social Science

The social science program is one of the most established and respected programs within the social science discipline. It is a computer-based program in which social science theory and practice receive equal emphasis as applied to both financial and managerial social science issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's social science workplace:

- Technical social science knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the social science program.

## Courses

Course Number	Course Title	Credits
SOCIA 1100	Introduction to Social Science	3 Credits
SOCIA 1110	Introduction to Globalization	3 Credits
SOCIA 1800	Special Project	1-3 Credits
SOCIA 1820	Selected Topics I	3 Credits
SOCIA 1821	Selected Topics II	3 Credits
SOCIA 1822	Selected Topics III	3 Credits
SOCIA 1823	Selected Topics IV	3 Credits
SOCIA 1840	Independent Study	1-4 Credits
SOCIA 2800	Special Project	1-3 Credits
SOCIA 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
SOCIA 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits
SOCIA 2870	Internship (Transfer)	1-4 Credits
SOCIA 2871	Internship - Advanced (Transfer)	1-4 Credits

## Spanish

The spanish program is one of the most established and respected programs within the spanish discipline. It is a computer-based program in which spanish theory and practice receive equal emphasis as applied to both financial and managerial spanish issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's spanish workplace:

- Technical spanish knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the spanish program.

## Courses

Course Number	Course Title	Credits
SPANI 1100	Civilization and Culture of Spain	3 Credits
SPANI 1101	Elementary Spanish I	4 Credits
SPANI 1102	Elementary Spanish II	4 Credits
SPANI 1110	Latin American Culture & Civilization	3 Credits
SPANI 1840	Independent Study	1-4 Credits
SPANI 2201	Intermediate Spanish I	4 Credits
SPANI 2202	Intermediate Spanish II	4 Credits
SPANI 2206	Spanish for Heritage Speakers I	4 Credits
SPANI 2208	Spanish for Heritage Speakers II	4 Credits
SPANI 2251	Conversation and Composition I	3 Credits
SPANI 2252	Conversation and Composition II	3 Credits
SPANI 2800	Special Project	1-4 Credits
SPANI 2820	Advanced Selected Topics	1-4 Credits
SPANI 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
SPANI 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits
SPANI 2870	Internship (Transfer)	1-4 Credits
SPANI 2871	Internship - Advanced (Transfer)	1-4 Credits

## Photography

The photography program is one of the most established and respected programs within the photography discipline. It is a computer-based program in which photography theory and practice receive equal emphasis as applied to both financial and managerial photography issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's photography workplace:

- Technical photography knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the photography program.

## Courses

Course Number	Course Title	Credits
PHOTO 1100	Fundamentals of Photography	3 Credits
PHOTO 1101	Foundations of Digital Photography	3 Credits
PHOTO 1102	Foundations of Film Photography	3 Credits
PHOTO 1105	History of Photography	3 Credits
PHOTO 1200	Intermediate Photography	3 Credits
PHOTO 1201	Tools & Techniques-Digital Photography	3 Credits
PHOTO 1202	Tools & Techniques for Film Photography	3 Credits
PHOTO 1250	Advanced Digital Imaging	3 Credits
PHOTO 1260	Alternative Photographic Processes	3 Credits
PHOTO 1300	Studio Photography 1	3 Credits
PHOTO 1400	Color Photography 1	3 Credits
PHOTO 1450	Nature Photography	3 Credits
PHOTO 1500	Photojournalism	3 Credits
PHOTO 1820	Selected Topics 1	1 Credits
PHOTO 1821	Selected Topics 2	2 Credits
PHOTO 1840	Independent Study	1-4 Credits
PHOTO 2100	Extended Photographic Project	3 Credits

Course Number	Course Title	Credits
PHOTO 2200	Portrait Photography	3 Credits
PHOTO 2300	Studio Photography 2	3 Credits
PHOTO 2350	Studio Photography 3	3 Credits
PHOTO 2400	Color Photography 2	3 Credits
PHOTO 2700	Professional Photographic Practices	3 Credits
PHOTO 2750	Portfolio Presentation	3 Credits
PHOTO 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
PHOTO 2865	Internship-Advanced (Career & Tech Ed)	1-4 Credits

## Education

The education program is one of the most established and respected programs within the education discipline. It is a computer-based program in which education theory and practice receive equal emphasis as applied to both financial and managerial education issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's education workplace:

- Technical education knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the education program.

## Courses

Course Number	Course Title	Credits
EDUCA 1100	Introduction to Education	3 Credits
EDUCA 1101	School Procedures I	3 Credits
EDUCA 1102	School Procedures II	3 Credits
EDUCA 1105	Career Development	2 Credits
EDUCA 1110	Interpersonal Skills for Life and Work	2 Credits
EDUCA 1115	College Success Skills	2 Credits
EDUCA 1150	School Resources	3 Credits

Course Number	Course Title	Credits
EDUCA 1800	Special Project	1-3 Credits
EDUCA 1820	Selected Topics I	1-3 Credits
EDUCA 1840	Independent Study	1-4 Credits
EDUCA 2201	Education for Exceptional Children	3 Credits
EDUCA 2202	Introduction to Learning Disabilities	3 Credits
EDUCA 2211	Survey of Literature for Children	3 Credits
EDUCA 2700	Best Practices in Online Education	3 Credits
EDUCA 2720	Course Design for Online Education	4 Credits
EDUCA 2740	Multimedia for Online Teaching	3 Credits
EDUCA 2760	Teach W/Social Media & Collaboratn Tools	3 Credits
EDUCA 2780	Video Applications in Education	3 Credits
EDUCA 2800	Special Project	1-3 Credits
EDUCA 2820	Advanced Selected Topics I	1-3 Credits
EDUCA 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
EDUCA 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits
EDUCA 2870	Internship (Transfer)	1-4 Credits
EDUCA 2871	Internship - Advanced (Transfer)	1-4 Credits

## Accounting

The accounting program is one of the most established and respected programs within the accounting discipline. It is a computer-based program in which accounting theory and practice receive equal emphasis as applied to both financial and managerial accounting issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's accounting workplace:

- Technical accounting knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the accounting program.



## Courses

Course Number	Course Title	Credits
ACCOU 0430	Bookkeeping - a Practical Focus	2 Credits
ACCOU 1110	Accounting Procedures	3 Credits
ACCOU 1140	Financial Accounting	4 Credits
ACCOU 1150	Managerial Accounting	4 Credits
ACCOU 1175	Microcomputer Accounting	2 Credits
ACCOU 1840	Independent Study	1-4 Credits
ACCOU 2200	Income Tax Return Preparation	3 Credits
ACCOU 2205	Federal Taxation I	3 Credits
ACCOU 2206	Federal Taxation II	3 Credits
ACCOU 2241	Intermediate Accounting I	4 Credits
ACCOU 2242	Intermediate Accounting II	4 Credits
ACCOU 2251	Cost Accounting	4 Credits
ACCOU 2260	Advanced Accounting	3 Credits
ACCOU 2265	Governmental & Not-For-Profit Accounting	3 Credits
ACCOU 2271	Auditing I	3 Credits
ACCOU 2272	Auditing II	3 Credits
ACCOU 2280	Forensic Accounting-Fraud Examination	3 Credits
ACCOU 2290	Accounting Research	2 Credits
ACCOU 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
ACCOU 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits
ACCOU 2870	Internship (Transfer)	1-4 Credits

## Anatomy & Physiology

The anatomy and physiology program is one of the most established and respected programs within the anatomy and physiology discipline. It is a computer-based program in which anatomy and physiology theory and practice receive equal emphasis as applied to both financial and managerial anatomy and physiology issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking

to pursue advanced degrees. Required course work covers areas critical to success in today's anatomy and physiology workplace:

- Technical anatomy and physiology knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the anatomy and physiology program.

## Courses

Course Number	Course Title	Credits
ANAT 1500	Survey of Human Anatomy and Physiology	4 Credits
ANAT 1551	Human Anatomy and Physiology I	4 Credits
ANAT 1552	Human Anatomy and Physiology II	4 Credits
ANAT 1571	Anatomy and Physiology With Cadaver I	4 Credits
ANAT 1572	Anatomy and Physiology With Cadaver II	4 Credits
ANAT 1820	Selected Topics I	3 Credits
ANAT 1821	Selected Topics II	3 Credits
ANAT 1840	Independent Study	1-4 Credits
ANAT 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
ANAT 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits
ANAT 2870	Internship (Transfer)	1-4 Credits
ANAT 2871	Internship - Advanced (Transfer)	1-4 Credits

## Korean

The Korean program is one of the most established and respected programs within the Korean discipline. It is a computer-based program in which Korean theory and practice receive equal emphasis as applied to both financial and managerial Korean issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's Korean workplace:

- Technical Korean knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the Korean program.

## Courses

Course Number	Course Title	Credits
KOREA 1101	Elementary Korean I	4 Credits
KOREA 1102	Elementary Korean II	4 Credits
KOREA 1840	Independent Study	1-4 Credits
KOREA 2201	Intermediate Korean I	4 Credits
KOREA 2202	Intermediate Korean II	4 Credits
KOREA 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
KOREA 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits
KOREA 2870	Internship (Transfer)	1-4 Credits
KOREA 2871	Internship - Advanced (Transfer)	1-4 Credits

## Management

The management program is one of the most established and respected programs within the management discipline. It is a computer-based program in which management theory and practice receive equal emphasis as applied to both financial and managerial management issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's management workplace:

- Technical management knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the management program.

## Courses

Course Number	Course Title	Credits
MANAG 1100	Supervision	3 Credits
MANAG 1820	Selected Topics	3 Credits
MANAG 1840	Independent Study	1-3 Credits
MANAG 2170	Project Management	3 Credits
MANAG 2210	Principles of Management	3 Credits

Course Number	Course Title	Credits
MANAG 2215	Leadership	3 Credits
MANAG 2220	Organizational Behavior	3 Credits
MANAG 2230	Purchasing	3 Credits
MANAG 2240	Human Resource Management	3 Credits
MANAG 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
MANAG 2865	Internship Advanced (Career & Tech Ed)yCoop Ed/Internship Occup	1-4 Credits

## Interior Design

The interior design program is one of the most established and respected programs within the interior design discipline. It is a computer-based program in which interior design theory and practice receive equal emphasis as applied to both financial and managerial interior design issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's interior design workplace:

- Technical interior design knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the interior design program.

## Courses

Course Number	Course Title	Credits
INTER 1110	Drafting Interiors	3 Credits
INTER 1125	Sustainable Design I	3 Credits
INTER 1135	Visualization Techniques	3 Credits
INTER 1151	Architecture and Design History I	3 Credits
INTER 1152	Architecture and Design History II	3 Credits
INTER 1153	Architecture and Design History: Non-Wes	3 Credits
INTER 1170	Environmental Materials and Applications	3 Credits
INTER 1190	Barrier-Free and Life-Safety Codes	3 Credits

<b>Course Number</b>	<b>Course Title</b>	<b>Credits</b>
INTER 1821	Selected Topics	1-3 Credits
INTER 1840	Independent Study	1-4 Credits
INTER 2110	Studio Foundation	3 Credits
INTER 2120	Furniture, Fixtures & Equipment	3 Credits
INTER 2211	Computer-Aided Interior Design I	3 Credits
INTER 2212	Computer-Aided Interior Design II	3 Credits
INTER 2213	Computer-Aided Interior Design III	3 Credits
INTER 2214	Digital Interior Design Presentation	3 Credits
INTER 2220	Interior Systems and Details	3 Credits
INTER 2311	Lighting I	3 Credits
INTER 2312	Lighting II	3 Credits
INTER 2410	Residential Design Studio	3 Credits
INTER 2430	Contract Design Studio	3 Credits
INTER 2440	Office Design Studio	3 Credits
INTER 2450	Senior Design Studio	3 Credits
INTER 2511	Kitchen and Bath Design I	3 Credits
INTER 2512	Kitchen and Bath Design II	3 Credits
INTER 2515	Kitchen and Bath Computer Applications	3 Credits
INTER 2520	Furniture Design	3 Credits
INTER 2532	Green Interiors II	3 Credits
INTER 2680	Professional Practice and Ethics	3 Credits
INTER 2710	Portfolio Review	1 Credits
INTER 2821	Advanced Selected Topics	1-3 Credits
INTER 2860	Internship (Career & Technical Ed)	1-4 Credits
INTER 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits
INTER 2870	Internship (Transfer)	1-4 Credits
INTER 2871	Internship-Advanced (Transfer)	1-4 Credits

## Computer & Internetworking Technologies

The computer and internetworking technologies program is one of the most established and respected programs within the computer and internetworking technologies discipline. It is a computer-based program in which computer and internetworking technologies theory and practice receive equal emphasis as applied to both financial and managerial computer and internetworking technologies issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's computer and internetworking technologies workplace:

- Technical computer and internetworking technologies knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the computer and internetworking technologies program.

### Courses

Course Number	Course Title	Credits
CIT 1100	PC Maintenance & Upgrading	2 Credits
CIT 1111	Computer and Hardware Maintenance	3 Credits
CIT 1112	Advanced System Maintenance	3 Credits
CIT 1113	Advanced Computer Maintenance Tools	2 Credits
CIT 1114	Apple MacOS Maintenance/Troubleshooting	3 Credits
CIT 1120	Binary Numbers & Subnetting	2 Credits
CIT 1121	Introduction to Networks	3 Credits
CIT 1122	Routing and Switching Essentials	3 Credits
CIT 1123	Scaling Networks	3 Credits
CIT 1124	Connecting Networks	3 Credits
CIT 1125	Cisco Certified Design Associate (CCDA)	3 Credits
CIT 1151	Wireless Network Administration	3 Credits
CIT 1612	Windows PC Desktop Operating Systems	3 Credits
CIT 1613	Enterprise Desktop PC Support Technician	3 Credits
CIT 1635	Network Plus	3 Credits
CIT 1640	Security Plus	3 Credits
CIT 1645	Internet Telephony	3 Credits

Course Number	Course Title	Credits
CIT 1650	IT Project Plus	3 Credits
CIT 1710	Server Plus	3 Credits
CIT 1825	Selected Topics	2 Credits
CIT 1840	Independent Study	1-4 Credits
CIT 2170	Virtual PC-VMware Workstation	2 Credits
CIT 2241	Cisco Certifd Netwk Professional-ROUTE	3 Credits
CIT 2242	Cisco Certified Network Professional 2	3 Credits
CIT 2243	Cisco Certifd Netwk Professional-SWITCH	3 Credits
CIT 2244	Cisco Certifd Netwk Professional-TSHOOT	3 Credits
CIT 2251	CCNA Security	3 Credits
CIT 2410	CCNA Voice	3 Credits
CIT 2411	Cisco Voice Over IP	3 Credits
CIT 2412	Quality of Service	3 Credits
CIT 2640	Ethical Hacking	3 Credits
CIT 2651	Computer Forensics I	3 Credits
CIT 2652	Computer Forensics II	3 Credits
CIT 2710	Capstone: Computer Network Integration	3 Credits
CIT 2840	Experimental/Pilot Class	1-6 Credits
CIT 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
CIT 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits

## Geography

The geography program is one of the most established and respected programs within the geography discipline. It is a computer-based program in which geography theory and practice receive equal emphasis as applied to both financial and managerial geography issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's geography workplace:

- Technical geography knowledge
- Communication and interpersonal skills

- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the geography program.

## Courses

Course Number	Course Title	Credits
GEOGR 1100	Western World Geography	3 Credits
GEOGR 1105	Eastern World Geography	3 Credits
GEOGR 1107	Introduction to Geography	3 Credits
GEOGR 1108	Geographic Skills: Regional	3 Credits
GEOGR 1110	Political Geography	3 Credits
GEOGR 1120	Economic Geography	3 Credits
GEOGR 1130	Cultural Geography	3 Credits
GEOGR 1140	Urban Geography	3 Credits
GEOGR 1151	Geographic Information Systems I	3 Credits
GEOGR 1152	Geographic Information Systems II	3 Credits
GEOGR 1153	Applied Geographic Information Systems	3 Credits
GEOGR 1154	Geodatabase Development	3 Credits
GEOGR 1155	GIS Capstone Project	3 Credits
GEOGR 1800	Special Project	1-3 Credits
GEOGR 1820	Selected Topics I	1-3 Credits
GEOGR 1840	Independent Study	1-4 Credits
GEOGR 2204	Russia	3 Credits
GEOGR 2210	United States and Canada	3 Credits
GEOGR 2220	Latin America	3 Credits
GEOGR 2221	Mexico	3 Credits
GEOGR 2235	The Middle East	3 Credits
GEOGR 2820	Advanced Selected Topics I	1-3 Credits
GEOGR 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
GEOGR 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits
GEOGR 2870	Internship (Transfer)	1-4 Credits



Course Number	Course Title	Credits
GEOGR 2871	Internship - Advanced (Transfer)	1-4 Credits

## Respiratory Care

The respiratory care program is one of the most established and respected programs within the respiratory care discipline. It is a computer-based program in which respiratory care theory and practice receive equal emphasis as applied to both financial and managerial respiratory care issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's respiratory care workplace:

- Technical respiratory care knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the respiratory care program.

## Courses

Course Number	Course Title	Credits
RESP 1101	Basic Respiratory Care	3 Credits
RESP 1102	Intermediate Respiratory Care	3 Credits
RESP 1103	Advanced Respiratory Care	3 Credits
RESP 1105	Respiratory Assessment and Procedures	4 Credits
RESP 1111	Clinical Practice I	4 Credits
RESP 1112	Clinical Practice II	4 Credits
RESP 1113	Respiratory Care Clinical Practice	3 Credits
RESP 1120	Appld Cardiopulmonary Anat & Physiology	4 Credits
RESP 1121	Applied Science for Respiratory Care	4 Credits
RESP 1840	Independent Study - Individualized	1-4 Credits
RESP 2201	Adv Life Support, Monitoring & Trends	3 Credits
RESP 2202	Pulmonary Function Testing	3 Credits
RESP 2205	Neonatal/Pediatric Intensive Resp Care	3 Credits
RESP 2206	Advanced Intensive Respiratory Care - Ad	4 Credits
RESP 2207	Adv Intensive Respiratory Care-Neonatal	3 Credits

Course Number	Course Title	Credits
RESP 2250	Respiratory Care Board Review	3 Credits
RESP 2280	Adv Clinical Assessment & Protocol	4 Credits
RESP 2300	Introduction to Polysomnography	3 Credits
RESP 2301	Polysomnography Anatomy & Physiology	3 Credits
RESP 2303	Clinical Practice I	3 Credits
RESP 2304	Advanced Polysomnography	3 Credits
RESP 2305	Sleep Study Analysis	3 Credits
RESP 2306	Clinical Practice II	3 Credits
RESP 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
RESP 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits

## Vocational Skills

The vocational skills program is one of the most established and respected programs within the vocational skills discipline. It is a computer-based program in which vocational skills theory and practice receive equal emphasis as applied to both financial and managerial vocational skills issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's vocational skills workplace:

- Technical vocational skills knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the vocational skills program.

## Courses

Course Number	Course Title	Credits
VOCSK 0611	Employment Skills I	2 Credits
VOCSK 0612	Employment Skills II	2 Credits
VOCSK 0620	Keyboard Skills	2 Credits
VOCSK 0621	Computer Skills I	2 Credits
VOCSK 0622	Computer Skills II	2 Credits

Course Number	Course Title	Credits
VOCSK 0625	General Office Skills I	2 Credits
VOCSK 0631	Automotive Skills I	2 Credits
VOCSK 0641	Food Service Skills I	2 Credits
VOCSK 0642	Food Service Skills II	2 Credits
VOCSK 0651	Hospitality Skills I	2 Credits
VOCSK 0661	Horticulture Skills I	2 Credits

## Microbiology

The microbiology program is one of the most established and respected programs within the microbiology discipline. It is a computer-based program in which microbiology theory and practice receive equal emphasis as applied to both financial and managerial microbiology issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's microbiology workplace:

- Technical microbiology knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the microbiology program.

## Courses

Course Number	Course Title	Credits
MICRO 1420	Microbiology	4 Credits
MICRO 1840	Independent Study	1-4 Credits
MICRO 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
MICRO 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits
MICRO 2870	Internship (Transfer)	1-4 Credits

## Health Information Technology

The health information technology program is one of the most established and respected programs within the health information technology discipline. It is a computer-based program in which health

information technology theory and practice receive equal emphasis as applied to both financial and managerial health information technology issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's health information technology workplace:

- Technical health information technology knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the health information technology program.

## Courses

Course Number	Course Title	Credits
HIT 1101	Fundamentals of Health Info Technology	4 Credits
HIT 1102	Classification Systems I	5 Credits
HIT 1103	Computerized Health Data and Statistics	4 Credits
HIT 1107	C.P.T. Coding	3 Credits
HIT 1108	ICD-10-CM Coding for Physician Services	3 Credits
HIT 1120	ICD-9-CM Coding for Physicians Services	3 Credits
HIT 1121	Billing in Physician Offices	3 Credits
HIT 1125	Clinical Reimbursement Methodologies	3 Credits
HIT 1840	Independent Study	1-4 Credits
HIT 2201	Legal/Qualitative Aspects of Health Info	5 Credits
HIT 2202	Management of Health Information	3 Credits
HIT 2203	Pharmacology for HIT Professionals	3 Credits
HIT 2207	Advanced CPT/ICD Coding	4 Credits
HIT 2211	Pathophysiology for Health Information	4 Credits
HIT 2212	Clinical Classification Systems II	4 Credits
HIT 2213	ICD-10-CM Coding for Inpatient Services	3 Credits
HIT 2221	Professional Practice Experience I	2 Credits
HIT 2231	Professional Practice Experience II	5 Credits
HIT 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
HIT 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits

## Welding Technology

The welding technology program is one of the most established and respected programs within the welding technology discipline. It is a computer-based program in which welding technology theory and practice receive equal emphasis as applied to both financial and managerial welding technology issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's welding technology workplace:

- Technical welding technology knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the welding technology program.

## Courses

Course Number	Course Title	Credits
WELD 1100	Welding I	3 Credits
WELD 1112	Oxy-Fuel, Welding, Plasma Cutting and Br	3 Credits
WELD 1122	Shielded Arc Welding (SMAW)	3 Credits
WELD 1132	Gas Metal Arc (MIG)	3 Credits
WELD 1142	Gas Tungsten Arc (TIG)	3 Credits
WELD 1151	Pipe Welding and Fabrication	3 Credits
WELD 1160	Skill Assessment	3 Credits
WELD 1840	Independent Study - Individualized	1-4 Credits
WELD 2000	Introduction to AWS Level 1	2 Credits
WELD 2001	AWS Level 1-Shielded Metal Arc Welding	3 Credits
WELD 2002	AWS Level 1 Gas Tungsten Arc Welding	3 Credits
WELD 2003	AWS Level 1 Flux Core Arc Welding	3 Credits
WELD 2004	AWS Level 1 Gas Metal Arc Welding	3 Credits
WELD 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
WELD 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits

## Earth Science

The earth science program is one of the most established and respected programs within the earth science discipline. It is a computer-based program in which earth science theory and practice receive equal emphasis as applied to both financial and managerial earth science issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's earth science workplace:

- Technical earth science knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the earth science program.

## Courses

Course Number	Course Title	Credits
EARTH 1101	Physical Geology of Earth's Interior	4 Credits
EARTH 1102	Physical Geology of Earth's Surface	4 Credits
EARTH 1105	Environmental Geology	4 Credits
EARTH 1110	Introduction to Meteorology	4 Credits
EARTH 1111	Climate and Global Change	3 Credits
EARTH 1115	Severe and Unusual Weather	4 Credits
EARTH 1116	Weather Analysis and Forecasting I	1 Credits
EARTH 1117	Weather Analysis and Forecasting II	1 Credits
EARTH 1119	Weather Impacts and Preparedness	3 Credits
EARTH 1120	Introduction to Astronomy	3 Credits
EARTH 1122	Astronomy: The Solar System	4 Credits
EARTH 1124	Astronomy: Stars and Galaxies	4 Credits
EARTH 1126	Observational Astronomy	4 Credits
EARTH 1130	Introduction to Oceanography	4 Credits
EARTH 1135	Water Science-Fundamentals of Hydrology	4 Credits
EARTH 1140	Fundamentals of Earth Science	4 Credits
EARTH 1141	Introduction to Earth Science	3 Credits

Course Number	Course Title	Credits
EARTH 1800	Special Project	1-3 Credits
EARTH 1820	Selected Topics I	1-3 Credits
EARTH 1840	Independent Study	1-4 Credits
EARTH 2102	Origin and Evolution of the Earth	4 Credits
EARTH 2103	Geologic Field Investigations	3 Credits
EARTH 2110	Intermediate Meteorology	4 Credits
EARTH 2115	Mesoscale Meteorology	4 Credits
EARTH 2116	Adv Weather Analysis & Forecasting I	1 Credits
EARTH 2117	Adv Weather Analysis & Forecasting II	1 Credits
EARTH 2118	Severe Weather Lab	2 Credits
EARTH 2800	Special Project	1-3 Credits
EARTH 2820	Advanced Selected Topics I	1-3 Credits
EARTH 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
EARTH 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits
EARTH 2870	Internship (Transfer)	1-4 Credits
EARTH 2871	Internship - Advanced (Transfer)	1-4 Credits

## German

The german program is one of the most established and respected programs within the german discipline. It is a computer-based program in which german theory and practice receive equal emphasis as applied to both financial and managerial german issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's german workplace:

- Technical german knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the german program.

## Courses

Course Number	Course Title	Credits
GERMA 1100	German Civilization and Culture	3 Credits
GERMA 1101	Elementary German I	4 Credits
GERMA 1102	Elementary German II	4 Credits
GERMA 1840	Independent Study	1-4 Credits
GERMA 2201	Intermediate German I	4 Credits
GERMA 2202	Intermediate German II	4 Credits
GERMA 2251	Conversation and Composition I	3 Credits
GERMA 2252	Conversation and Composition II	3 Credits
GERMA 2820	Advanced Selected Topics	1-4 Credits
GERMA 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
GERMA 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits
GERMA 2870	Internship (Transfer)	1-4 Credits
GERMA 2871	Internship - Advanced (Transfer)	1-4 Credits

## History

The history program is one of the most established and respected programs within the history discipline. It is a computer-based program in which history theory and practice receive equal emphasis as applied to both financial and managerial history issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's history workplace:

- Technical history knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the history program.

## Courses

Course Number	Course Title	Credits
HISTO 1110	Western Civilization Until 1600	3 Credits



<b>Course Number</b>	<b>Course Title</b>	<b>Credits</b>
HISTO 1120	Western Civilization Since 1600	3 Credits
HISTO 1130	History of the United States to 1865	3 Credits
HISTO 1140	History of the United States Since 1865	3 Credits
HISTO 1160	World Civilization Since 1300	3 Credits
HISTO 1800	Special Project	1-4 Credits
HISTO 1820	Selected Topics	1-4 Credits
HISTO 1824	Selected Topics in History	2 Credits
HISTO 1840	Independent Study	1-4 Credits
HISTO 2200	Middle East History From 1500	3 Credits
HISTO 2205	East Asian Civilization	3 Credits
HISTO 2210	History and Culture of Africa	3 Credits
HISTO 2215	History and Culture of India	3 Credits
HISTO 2220	History and Culture of China	3 Credits
HISTO 2225	History and Culture of Russia	3 Credits
HISTO 2230	History and Culture of Japan	3 Credits
HISTO 2235	20th Century World History	3 Credits
HISTO 2237	History of Terrorism	3 Credits
HISTO 2240	History and Culture of Latin America	3 Credits
HISTO 2242	African-American History	3 Credits
HISTO 2245	History and Culture of England	3 Credits
HISTO 2250	World War II and the Holocaust	3 Credits
HISTO 2260	United States Since 1945	3 Credits
HISTO 2265	History of Illinois	3 Credits
HISTO 2267	Native American History	3 Credits
HISTO 2270	History of Chicago	3 Credits
HISTO 2800	Special Project	1-4 Credits
HISTO 2820	Advanced Selected Topics	1-4 Credits
HISTO 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
HISTO 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits

Course Number	Course Title	Credits
HISTO 2870	Internship (Transfer)	1-4 Credits
HISTO 2871	Internship - Advanced (Transfer)	1-4 Credits

## Japanese

The Japanese program is one of the most established and respected programs within the Japanese discipline. It is a computer-based program in which Japanese theory and practice receive equal emphasis as applied to both financial and managerial Japanese issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's Japanese workplace:

- Technical Japanese knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the Japanese program.

## Courses

Course Number	Course Title	Credits
JAPAN 1100	Japanese Civilization and Culture	3 Credits
JAPAN 1101	Elementary Japanese I	4 Credits
JAPAN 1102	Elementary Japanese II	4 Credits
JAPAN 1800	Special Project	1-4 Credits
JAPAN 1840	Independent Study	1-4 Credits
JAPAN 2201	Intermediate Japanese I	4 Credits
JAPAN 2202	Intermediate Japanese II	4 Credits
JAPAN 2251	Conversation and Composition I	3 Credits
JAPAN 2252	Conversation and Composition II	3 Credits
JAPAN 2800	Special Project	1-4 Credits
JAPAN 2860	Internship (Career & Technical Ed)/Coop Ed/Internship Occup	1-4 Credits
JAPAN 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits
JAPAN 2870	Internship (Transfer)	1-4 Credits

Course Number	Course Title	Credits
JAPAN 2871	Internship - Advanced (Transfer)	1-4 Credits

## Manufacturing Technology

The manufacturing technology program is one of the most established and respected programs within the manufacturing technology discipline. It is a computer-based program in which manufacturing technology theory and practice receive equal emphasis as applied to both financial and managerial manufacturing technology issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's manufacturing technology workplace:

- Technical manufacturing technology knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the manufacturing technology program.

## Courses

Course Number	Course Title	Credits
MANUF 0480	Blueprint Reading for Machinists	1 Credits
MANUF 1101	Industrial Design/CAD	3 Credits
MANUF 1104	Technical Mechanics	2 Credits
MANUF 1110	Metrology	3 Credits
MANUF 1121	Physical Metallurgy	3 Credits
MANUF 1126	Introduction to Plastics	3 Credits
MANUF 1127	Engineering Materials of Industry	3 Credits
MANUF 1151	Machine Shop I	3 Credits
MANUF 1153	Advanced Machine Processes	3 Credits
MANUF 1160	Technical Static & Strength of Material	4 Credits
MANUF 1180	Quality Control	3 Credits
MANUF 1700	Fundmntls of Plastics & Plastic Products	3 Credits
MANUF 1820	Selected Topics I	1-10 Credits
MANUF 1840	Independent Study	1-4 Credits

Course Number	Course Title	Credits
MANUF 2200	Production Technology	4 Credits
MANUF 2201	Geometric Dimensioning and Tolerancing	3 Credits
MANUF 2202	Solid Modeling and Design	3 Credits
MANUF 2203	Manufacturing Processes and Design	3 Credits
MANUF 2206	Mechanical Computr-Aided Drafting/Design	3 Credits
MANUF 2207	Tool Design	3 Credits
MANUF 2208	Mechanical Design Portfolio	3 Credits
MANUF 2240	Basic Parametric Design-Pro/E	3 Credits
MANUF 2242	Advanced Parametric Design-Pro/E	3 Credits
MANUF 2251	Computer Numerical Control (CNC)	3 Credits
MANUF 2253	Computer-Aided Manufacturing (CAM)	3 Credits
MANUF 2261	Basic Die Making I	4 Credits
MANUF 2262	Basic Die Making II	4 Credits
MANUF 2265	Mold Making I	4 Credits
MANUF 2267	Mold Making II	4 Credits
MANUF 2271	Robotic Application	3 Credits
MANUF 2272	Advanced Die Making and Engineering I	4 Credits
MANUF 2274	Advanced Die Making and Engineering II	4 Credits
MANUF 2276	Advanced Mold Making and Engineering I	4 Credits
MANUF 2277	Advanced Mold Making and Engineering II	4 Credits
MANUF 2280	Industrial Safety	2 Credits
MANUF 2281	Cost Analysis	2 Credits
MANUF 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
MANUF 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits

## Dental Hygiene

The dental hygiene program is one of the most established and respected programs within the dental hygiene discipline. It is a computer-based program in which dental hygiene theory and practice receive equal emphasis as applied to both financial and managerial dental hygiene issues.

It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's dental hygiene workplace:

- Technical dental hygiene knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the dental hygiene program.

## Courses

Course Number	Course Title	Credits
DEHYG 1101	Principles in Dental Hygiene I	3 Credits
DEHYG 1102	Principles in Dental Hygiene II	2 Credits
DEHYG 1105	Dental Materials/Expanded Functions	3 Credits
DEHYG 1112	Dental Radiology I	2 Credits
DEHYG 1115	Dental Tooth Anatomy and Morphology	2 Credits
DEHYG 1120	Preclinical Dental Hygiene I	1 Credits
DEHYG 1121	Clinical Dental Hygiene I	1 Credits
DEHYG 1125	Head & Neck Anat: Histology & Embryology	2 Credits
DEHYG 1135	Applied Nutrition & Biochemistry	2 Credits
DEHYG 1136	General and Oral Pathology	2 Credits
DEHYG 1145	Medical Emergencies in a Dental Office	1 Credits
DEHYG 1840	Independent Study	1-4 Credits
DEHYG 2201	Dental Hygiene Theory I	2 Credits
DEHYG 2202	Dental Hygiene Theory II	2 Credits
DEHYG 2211	Periodontics I	2 Credits
DEHYG 2212	Periodontics II	2 Credits
DEHYG 2213	Dental Radiology II	2 Credits
DEHYG 2222	Clinical Dental Hygiene II	1 Credits
DEHYG 2223	Clinical Dental Hygiene III	2 Credits
DEHYG 2224	Clinical Dental Hygiene IV	2 Credits
DEHYG 2225	Review of Dental Literature	1 Credits
DEHYG 2232	Community Dental Health I	2 Credits

Course Number	Course Title	Credits
DEHYG 2233	Community Dental Health II	2 Credits
DEHYG 2235	Dental Pharmacology & Local Anesthetics	2 Credits
DEHYG 2245	Ethics and Jurisprudence: Practice Manag	2 Credits
DEHYG 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
DEHYG 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits

## Business Law

The business law program is one of the most established and respected programs within the business law discipline. It is a computer-based program in which business law theory and practice receive equal emphasis as applied to both financial and managerial business law issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's business law workplace:

- Technical business law knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the business law program.

## Courses

Course Number	Course Title	Credits
BUSLW 1840	Independent Study	1-4 Credits
BUSLW 2205	Legal Environment of Business	3 Credits
BUSLW 2211	Business Law I	3 Credits
BUSLW 2212	Business Law II	3 Credits
BUSLW 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
BUSLW 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits

## Radiation Therapy

The radiation therapy program is one of the most established and respected programs within the radiation therapy discipline. It is a computer-based program in which radiation therapy theory and practice receive equal emphasis as applied to both financial and managerial radiation therapy issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's radiation therapy workplace:

- Technical radiation therapy knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the radiation therapy program.

## Courses

Course Number	Course Title	Credits
RATH 2301	Princ & Practice of Radiation Therapy I	4 Credits
RATH 2302	Princ & Practice of Radiation Therapy II	4 Credits
RATH 2303	Princ & Practice Radiation Therapy III	4 Credits
RATH 2310	Radiation Therapy Physics	3 Credits
RATH 2311	Radiation Biology and Protection	4 Credits
RATH 2312	Quality Management in Radiation Therapy	3 Credits
RATH 2321	Cross-Sectional Anatomy	2 Credits
RATH 2322	Pathophysiology for Radiation Therapy	3 Credits
RATH 2323	Operational Issues in Radiation Therapy	3 Credits
RATH 2331	Clinical Practice I	3 Credits
RATH 2332	Clinical Practice II	3 Credits
RATH 2333	Clinical Practice III	3 Credits
RATH 2351	Principles of Proton Therapy	8 Credits
RATH 2352	Proton Therapy Lab Practicum	5 Credits
RATH 2353	Clinical Experience in Proton Therapy	3 Credits

## Criminal Justice

The criminal justice program is one of the most established and respected programs within the criminal justice discipline. It is a computer-based program in which criminal justice theory and practice receive equal emphasis as applied to both financial and managerial criminal justice issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's criminal justice workplace:

- Technical criminal justice knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the criminal justice program.

## Courses

Course Number	Course Title	Credits
CRIMJ 1100	Introduction to Criminal Justice	3 Credits
CRIMJ 1110	Police Operations and Procedures	3 Credits
CRIMJ 1112	Crime Prevention	3 Credits
CRIMJ 1120	Traffic Law and Investigation	3 Credits
CRIMJ 1130	Introduction to Corrections	3 Credits
CRIMJ 1135	Gangs and the Criminal Justice System	3 Credits
CRIMJ 1140	Principles of Security Administration	3 Credits
CRIMJ 1141	Contemporary Issues in Private Security	3 Credits
CRIMJ 1142	Private Security and Law Enforcement	3 Credits
CRIMJ 1145	Introduction to Homeland Security	3 Credits
CRIMJ 1146	Introduction to Border, Transportation,	3 Credits
CRIMJ 1147	Intro to Domestic & Internatl Terrorism	3 Credits
CRIMJ 1148	Emergency Management	3 Credits
CRIMJ 1151	Constitutional Law	3 Credits
CRIMJ 1152	Criminal Law	3 Credits
CRIMJ 1153	Rules of Evidence	3 Credits
CRIMJ 1154	Substance Abuse and the Law	3 Credits
CRIMJ 1165	Computers and Criminal Justice	3 Credits



Course Number	Course Title	Credits
CRIMJ 1210	Criminal Justice in the Media	3 Credits
CRIMJ 1820	Selected Topics	3 Credits
CRIMJ 1840	Independent Study	1-4 Credits
CRIMJ 2030	Probation and Parole	3 Credits
CRIMJ 2110	Continuity of Operations	3 Credits
CRIMJ 2120	Critical Incident Management	3 Credits
CRIMJ 2130	Disaster Management & Response	3 Credits
CRIMJ 2140	Intro to Intelligence-Homeland Security	3 Credits
CRIMJ 2150	Multiculturalism & Diversity	3 Credits
CRIMJ 2160	Intro to Bio Security & Bio Terrorism	3 Credits
CRIMJ 2230	Criminal Investigation	3 Credits
CRIMJ 2231	Criminology	3 Credits
CRIMJ 2235	Basic Evidence Photography	3 Credits
CRIMJ 2240	Juvenile Delinquency	3 Credits
CRIMJ 2250	Police Organization & Administration	3 Credits
CRIMJ 2260	Issues in Criminal Justice	3 Credits
CRIMJ 2310	Forensic Crime Scene Investigation	3 Credits
CRIMJ 2410	Violent Crime	3 Credits
CRIMJ 2820	Selected Topics	3 Credits
CRIMJ 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
CRIMJ 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits

## Physical Education

The physical education program is one of the most established and respected programs within the physical education discipline. It is a computer-based program in which physical education theory and practice receive equal emphasis as applied to both financial and managerial physical education issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's physical education workplace:

- Technical physical education knowledge

- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the physical education program.

## Courses

Course Number	Course Title	Credits
PHYS 1101	Aerobic Fitness Lab I	1 Credits
PHYS 1102	Aerobic Fitness Lab II	1 Credits
PHYS 1103	Aerobic Fitness Lab III	1 Credits
PHYS 1104	Aerobic Fitness Lab IV	1 Credits
PHYS 1106	Aerobics I	1 Credits
PHYS 1107	Aerobics II	1 Credits
PHYS 1108	Sit & Stand-Chair Aerobics I	0.5-1 Credits
PHYS 1109	Sit & Stand-Chair Aerobics II	0.5-1 Credits
PHYS 1111	Bench Step Aerobics I	1 Credits
PHYS 1112	Bench Step Aerobics II	1 Credits
PHYS 1113	Power Step Aerobics	1 Credits
PHYS 1115	Wheelchair Aerobics	1 Credits
PHYS 1123	Boot Camp Fitness I	1 Credits
PHYS 1124	Boot Camp Fitness II	1 Credits
PHYS 1125	BOSU Training I	1 Credits
PHYS 1126	BOSU Training II	1 Credits
PHYS 1131	Cardio Kickboxing I	1 Credits
PHYS 1132	Cardio Kickboxing II	1 Credits
PHYS 1135	Cardio Mixer I	0.5 Credits
PHYS 1136	Cardio Mixer II	0.5 Credits
PHYS 1141	Cross Training I	1 Credits
PHYS 1142	Cross Training II	1 Credits
PHYS 1143	Aerobic Fitness Combo I	1 Credits

<b>Course Number</b>	<b>Course Title</b>	<b>Credits</b>
PHYS 1144	Aerobic Fitness Combo II	1 Credits
PHYS 1151	Fitness Walking I	1 Credits
PHYS 1152	Fitness Walking II	1 Credits
PHYS 1153	Jogging I	1 Credits
PHYS 1154	Jogging II	1 Credits
PHYS 1161	Physical Fitness I	1 Credits
PHYS 1162	Physical Fitness II	1 Credits
PHYS 1171	Weight Training I	1 Credits
PHYS 1172	Weight Training II	1 Credits
PHYS 1181	Spinning I	1 Credits
PHYS 1182	Spinning II	1 Credits
PHYS 1183	Step/Slide/Sculpt	1 Credits
PHYS 1184	Body Sculpting I	1 Credits
PHYS 1185	Body Sculpting II	1 Credits
PHYS 1190	SAQSP Training	1 Credits
PHYS 1191	Power Lifting I	1 Credits
PHYS 1192	Power Lifting II	1 Credits
PHYS 1300	Baseball	1 Credits
PHYS 1301	Basketball I	1 Credits
PHYS 1302	Basketball II	1 Credits
PHYS 1311	Golf I	1 Credits
PHYS 1312	Golf II	1 Credits
PHYS 1313	Golf III	1 Credits
PHYS 1321	Pickleball I	1 Credits
PHYS 1322	Pickleball II	1 Credits
PHYS 1331	Racquetball I	1 Credits
PHYS 1332	Racquetball II	1 Credits
PHYS 1334	Racquet Sports	2 Credits
PHYS 1335	Selected Team Sports	3 Credits

<b>Course Number</b>	<b>Course Title</b>	<b>Credits</b>
PHYS 1341	Soccer I	1 Credits
PHYS 1342	Soccer II	1 Credits
PHYS 1351	Softball	1 Credits
PHYS 1361	Tennis I	1 Credits
PHYS 1362	Tennis II	1 Credits
PHYS 1370	Track and Field	1 Credits
PHYS 1381	Volleyball I	1 Credits
PHYS 1382	Volleyball II	1 Credits
PHYS 1400	Aqua Step	1 Credits
PHYS 1401	Swimming I	1 Credits
PHYS 1402	Swimming II	1 Credits
PHYS 1411	Swim Conditioning I	1 Credits
PHYS 1412	Swim Conditioning II	1 Credits
PHYS 1420	Deep Water Fitness	1 Credits
PHYS 1421	Water Aerobics I	1 Credits
PHYS 1422	Water Aerobics II	1 Credits
PHYS 1425	Aquasize I	0.5 Credits
PHYS 1426	Aquasize II	0.5 Credits
PHYS 1500	Performance Nutrition	1 Credits
PHYS 1551	Anatomy Tuneup	1 Credits
PHYS 1554	Healthy Eating	1 Credits
PHYS 1555	Personal Fitness Program	1 Credits
PHYS 1556	Stress Management	1 Credits
PHYS 1557	Women's Health Issues	1 Credits
PHYS 1558	Men's Health Issues	1 Credits
PHYS 1559	Senior Health Issues	1 Credits
PHYS 1601	Dancercise I	1 Credits
PHYS 1602	Dancercise II	1 Credits
PHYS 1603	Zumba I	0.5-1 Credits

Course Number	Course Title	Credits
PHYS 1604	Zumba I	0.5-1 Credits
PHYS 1611	Ballet I	1 Credits
PHYS 1612	Ballet II	1 Credits
PHYS 1621	Modern Jazz I	1 Credits
PHYS 1622	Modern Jazz II	1 Credits
PHYS 1623	Tap Dancing I	0.5-1 Credits
PHYS 1624	Modern Dance I	1 Credits
PHYS 1625	Modern Dance II	1 Credits
PHYS 1631	Social Dance	1 Credits
PHYS 1641	Recreational Dance	1 Credits
PHYS 1642	Choreography & Composition of Dance	2 Credits
PHYS 1643	Dance Appreciation	3 Credits
PHYS 1644	Dance Production & Performance	1-3 Credits
PHYS 1645	Dance Pedagogy	3 Credits
PHYS 1701	Aikido I	1 Credits
PHYS 1702	Aikido II	1 Credits
PHYS 1711	Hapkido I	1 Credits
PHYS 1712	Hapkido II	1 Credits
PHYS 1721	Judo I	1 Credits
PHYS 1722	Judo II	1 Credits
PHYS 1731	Jujutsu I	1 Credits
PHYS 1732	Jujutsu II	1 Credits
PHYS 1741	Karate I	1 Credits
PHYS 1742	Karate II	1 Credits
PHYS 1751	Personal Defense	1 Credits
PHYS 1761	Personal Safety for Women	1 Credits
PHYS 1771	Malay Silat I	1 Credits
PHYS 1772	Malay Silat II	1 Credits

<b>Course Number</b>	<b>Course Title</b>	<b>Credits</b>
PHYS 1774	Flow Yoga I	0.5-1 Credits
PHYS 1775	Flow Yoga II	0.5-1 Credits
PHYS 1778	Relaxation & Meditation Techniques	0.5-1 Credits
PHYS 1800	Special Project	1-3 Credits
PHYS 1801	Bowling I	1 Credits
PHYS 1802	Bowling II	1 Credits
PHYS 1804	Bicycle Touring	1 Credits
PHYS 1805	Angling	1 Credits
PHYS 1810	Canoeing	1 Credits
PHYS 1811	Backpacking	1 Credits
PHYS 1813	Outdoor Environment Skills	1 Credits
PHYS 1820	Selected Topics	0.5-3 Credits
PHYS 1821	Fencing I	1 Credits
PHYS 1822	Fencing II	1 Credits
PHYS 1831	Marksmanship	1 Credits
PHYS 1840	Independent Study	1-4 Credits
PHYS 1841	Rock Climbing	1 Credits
PHYS 1851	Downhill Skiing I	1 Credits
PHYS 1852	Downhill Skiing II	1 Credits
PHYS 1854	Cross Country Skiing I	1 Credits
PHYS 1855	Cross Country Skiing II	1 Credits
PHYS 1901	Hatha Yoga I	1 Credits
PHYS 1902	Hatha Yoga II	1 Credits
PHYS 1904	Gentle Yoga I	1 Credits
PHYS 1905	Gentle Yoga II	1 Credits
PHYS 1908	Vinyasa Flow Yoga I	0.5 Credits
PHYS 1909	Vinyasa Flow Yoga II	0.5 Credits

Course Number	Course Title	Credits
PHYS 1911	Pilates I (Mat)	1 Credits
PHYS 1912	Pilates II (Mat)	1 Credits
PHYS 1921	Power Yoga I	1 Credits
PHYS 1922	Power Yoga II	1 Credits
PHYS 1931	NIA Aerobics I	1 Credits
PHYS 1932	NIA Aerobics II	1 Credits
PHYS 2200	Introduction to Physical Education	3 Credits
PHYS 2201	Introduction to Coaching	3 Credits
PHYS 2202	Introduction to Athletic Programs	3 Credits
PHYS 2203	Teaching Sports Skills	3 Credits
PHYS 2204	Theory and Practice of Baseball	3 Credits
PHYS 2205	Theory and Practice of Soccer	3 Credits
PHYS 2206	Theory and Practice of Basketball	3 Credits
PHYS 2208	Theory and Practice of Football	3 Credits
PHYS 2210	Sports in Society	3 Credits
PHYS 2224	Theory and Practice of Track and Field	3 Credits
PHYS 2230	Theory and Practice of Volleyball	3 Credits
PHYS 2233	Theory and Practice of Fastpitch Softbal	3 Credits
PHYS 2238	Skin and Scuba Diving	3 Credits
PHYS 2239	Skin and Scuba Diving II	3 Credits
PHYS 2240	Introduction to Sport Psychology	3 Credits
PHYS 2244	Lifeguard Training	2 Credits
PHYS 2251	Living With Health	3 Credits
PHYS 2253	CPR Training	1 Credits
PHYS 2254	First Aid and CPR	3 Credits
PHYS 2255	Care and Prevention of Athletic Injuries	3 Credits
PHYS 2256	Applied Procedures and Techniques	3 Credits
PHYS 2257	Athletic Taping Techniques	1 Credits
PHYS 2258	The Science of Nutrition	3 Credits

Course Number	Course Title	Credits
PHYS 2260	The Science of Physical Fitness	2 Credits
PHYS 2261	Applied Kinesiology	3 Credits
PHYS 2262	Fitness Instructor Training-Group	2 Credits
PHYS 2263	Fitness Instructor Training-Personal	2 Credits
PHYS 2264	Sports Mechanics for Coaches	2 Credits
PHYS 2265	Biophysical Foundations/Human Movement	2 Credits
PHYS 2270	Introduction to Sports Marketing	3 Credits
PHYS 2800	Special Project	1-3 Credits
PHYS 2840	Experimental/Pilot Class	1-6 Credits
PHYS 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
PHYS 2863	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	3 Credits
PHYS 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits
PHYS 2870	Internship (Transfer)	1-4 Credits
PHYS 2871	Internship - Advanced (Transfer)	1-4 Credits

## Mass Communication

The mass communication program is one of the most established and respected programs within the mass communication discipline. It is a computer-based program in which mass communication theory and practice receive equal emphasis as applied to both financial and managerial mass communication issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's mass communication workplace:

- Technical mass communication knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the mass communication program.



## Courses

Course Number	Course Title	Credits
MCOMM 1100	Introduction to Mass Communication	3 Credits
MCOMM 1105	News Reporting & Writing for Multimedia	3 Credits
MCOMM 1120	Intro to Broadcasting-Global Environment	3 Credits
MCOMM 1130	Basic News Editing	3 Credits
MCOMM 1800	Special Project	1-3 Credits
MCOMM 1840	Independent Study	1-4 Credits
MCOMM 2100	Social Media As News	3 Credits
MCOMM 2860	Internship (Career & Technical Ed)	1-4 Credits
MCOMM 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits
MCOMM 2870	Internship (Transfer)	1-4 Credits
MCOMM 2871	Internship - Advanced (Transfer)	1-4 Credits

## Anthropology

The anthropology program is one of the most established and respected programs within the anthropology discipline. It is a computer-based program in which anthropology theory and practice receive equal emphasis as applied to both financial and managerial anthropology issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's anthropology workplace:

- Technical anthropology knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the anthropology program.

## Courses

Course Number	Course Title	Credits
ANTHR 1000	Introduction to Anthropology	3 Credits
ANTHR 1100	Cultural Anthropology	3 Credits
ANTHR 1105	Practical Anthropology	3 Credits

Course Number	Course Title	Credits
ANTHR 1110	Business Anthropology	3 Credits
ANTHR 1130	People and Cultures of the World	3 Credits
ANTHR 1200	Discovering Archaeology	3 Credits
ANTHR 1210	Ancient Civilizations and Societies	3 Credits
ANTHR 1300	Language and Culture	3 Credits
ANTHR 1400	Race, Sex and Human Evolution	3 Credits
ANTHR 1410	Evolution of Human Sexual Behavior	3 Credits
ANTHR 1800	Special Project	1-3 Credits
ANTHR 1820	Selected Topics I	3 Credits
ANTHR 1840	Independent Study	1-4 Credits
ANTHR 2100	Introduction to Anthropological Methods	4 Credits
ANTHR 2150	Culture and the Mind	3 Credits
ANTHR 2200	Introduction to Anthropological Methods	4 Credits
ANTHR 2210	Field Experience/Applied Anthropology	4 Credits
ANTHR 2240	Field Work Archaeology	3 Credits
ANTHR 2245	Laboratory Methods in Archaeology	3 Credits
ANTHR 2400	Introduction to Forensic Anthropology	3 Credits
ANTHR 2800	Special Project	1-3 Credits
ANTHR 2820	Advanced Selected Topics I	3 Credits
ANTHR 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
ANTHR 2870	Internship (Transfer)	1-4 Credits
ANTHR 2871	Internship - Advanced (Transfer)	1-4 Credits

## Physical Therapist Assistant

The physical therapist assistant program is one of the most established and respected programs within the physical therapist assistant discipline. It is a computer-based program in which physical therapist assistant theory and practice receive equal emphasis as applied to both financial and managerial physical therapist assistant issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking

to pursue advanced degrees. Required course work covers areas critical to success in today's physical therapist assistant workplace:

- Technical physical therapist assistant knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the physical therapist assistant program.

## Courses

Course Number	Course Title	Credits
PHYTA 1100	Introduction to Physical Therapy	2 Credits
PHYTA 1107	PTA Pathophysiology	2 Credits
PHYTA 1109	Basic Health Care Skills and Principles	3 Credits
PHYTA 1110	PTA Documentation	1.5 Credits
PHYTA 1111	PTA Kinesiology I	2 Credits
PHYTA 1112	PTA Kinesiology II	3 Credits
PHYTA 1114	PTA Total Patient Care	1 Credits
PHYTA 1201	PTA Therapeutic Modalities	4 Credits
PHYTA 1202	PTA Therapeutic Exercise	2 Credits
PHYTA 1211	PTA Therapeutic Assessment & Basic Int	4 Credits
PHYTA 1221	PTA Clinical Practicum I	1 Credits
PHYTA 1840	Independent Study - Individualized	1-4 Credits
PHYTA 2203	PTA Neuromuscular & Cardiopulmonary Reh	3 Credits
PHYTA 2204	PTA Spec Patient Populations	2 Credits
PHYTA 2212	PTA Advanced Orthopedic Rehabilitation	4 Credits
PHYTA 2214	PTA Professional Issues	1 Credits
PHYTA 2222	PTA Clinical Practicum II	1.5 Credits
PHYTA 2223	PTA Clinical Practicum III	2.5 Credits
PHYTA 2224	PTA Clinical Practicum IV	3 Credits
PHYTA 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
PHYTA 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits

## Speech Communication

The speech communication program is one of the most established and respected programs within the speech communication discipline. It is a computer-based program in which speech communication theory and practice receive equal emphasis as applied to both financial and managerial speech communication issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's speech communication workplace:

- Technical speech communication knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the speech communication program.

## Courses

Course Number	Course Title	Credits
SPEEC 0495	Prep College Speech-Non-Native Speakers	3 Credits
SPEEC 1100	Fundamentals of Speech Communication	3 Credits
SPEEC 1110	Oral Interpretation	3 Credits
SPEEC 1120	Small-Group Communication	3 Credits
SPEEC 1140	Public Relations	3 Credits
SPEEC 1150	Introduction to Business Communication	3 Credits
SPEEC 1160	Interpersonal Communication	3 Credits
SPEEC 1190	Applied Forensics	1 Credits
SPEEC 1800	Special Project	3 Credits
SPEEC 1820	Selected Topics	1-4 Credits
SPEEC 1840	Independent Study	1-4 Credits
SPEEC 2130	Advanced Public Speaking	3 Credits
SPEEC 2160	Argumentation and Debate	3 Credits
SPEEC 2190	Forensics Theory and Practice	3 Credits
SPEEC 2200	Intercultural Communication	3 Credits
SPEEC 2210	Readers' Theater (Group Performance Lit	3 Credits

Course Number	Course Title	Credits
SPEEC 2800	Special Project	3 Credits
SPEEC 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
SPEEC 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits
SPEEC 2870	Internship (Transfer)	1-4 Credits
SPEEC 2871	Internship - Advanced (Transfer)	1-4 Credits
SPEEC 2912	Persuasive Speaking	3 Credits

## Office Technology Information

The office technology information program is one of the most established and respected programs within the office technology information discipline. It is a computer-based program in which office technology information theory and practice receive equal emphasis as applied to both financial and managerial office technology information issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's office technology information workplace:

- Technical office technology information knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the office technology information program.

## Courses

Course Number	Course Title	Credits
OFTI 1100	Keyboarding and Document Fundamentals	3 Credits
OFTI 1105	Speed Development Keyboarding	3 Credits
OFTI 1110	Document Formatting	3 Credits
OFTI 1130	Business Correspondence	3 Credits
OFTI 1200	MS Office for Professional Staff	3 Credits
OFTI 1203	E-Mail and Electronic Communication	3 Credits
OFTI 1210	Word Processing I	3 Credits
OFTI 1215	Adv Word Processing/Desktop Publishing	3 Credits

Course Number	Course Title	Credits
OFTI 1218	MS Word Desktop Publishing	2 Credits
OFTI 1250	Electr Presentatn-Business Professionals	3 Credits
OFTI 1300	Virtual Office Assistant	3 Credits
OFTI 1820	Selected Topics in Office Technology Inf	3 Credits
OFTI 1824	Selected Topics in Office Technology Inf	2 Credits
OFTI 1827	Selected Topics in Office Technology Inf	1 Credits
OFTI 1840	Independent Study - Individualized	1-4 Credits
OFTI 2500	Professional Office Capstone	3 Credits
OFTI 2600	Professional Development	3 Credits
OFTI 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
OFTI 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits

## Library & Information Technology

The library and information technology program is one of the most established and respected programs within the library and information technology discipline. It is a computer-based program in which library and information technology theory and practice receive equal emphasis as applied to both financial and managerial library and information technology issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's library and information technology workplace:

- Technical library and information technology knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the library and information technology program.

## Courses

Course Number	Course Title	Credits
LIBRA 1101	Intro to Libraries & the Information Age	3 Credits
LIBRA 1102	Intro to Reference & Information Svcs	4 Credits
LIBRA 1103	Acquisition of Library Materials	3 Credits

Course Number	Course Title	Credits
LIBRA 1104	Essential Library Workplace Skills	3 Credits
LIBRA 1105	Readers Advisory	3 Credits
LIBRA 1820	Selected Topics	3 Credits
LIBRA 1840	Independent Study	1-4 Credits
LIBRA 2100	Intro to Cataloging & Classification	4 Credits
LIBRA 2200	Serving the Public in Today's Libraries	4 Credits
LIBRA 2300	Multimedia Services and Equipment in Tod	3 Credits
LIBRA 2600	Library Practicum	4 Credits
LIBRA 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
LIBRA 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits

## Sociology

The sociology program is one of the most established and respected programs within the sociology discipline. It is a computer-based program in which sociology theory and practice receive equal emphasis as applied to both financial and managerial sociology issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's sociology workplace:

- Technical sociology knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the sociology program.

## Courses

Course Number	Course Title	Credits
SOCIO 1100	Introduction to Sociology	3 Credits
SOCIO 1120	Sociology of Sex, Gender and Power	3 Credits
SOCIO 1800	Special Project	1-4 Credits
SOCIO 1820	Selected Topics I	1-3 Credits
SOCIO 1840	Independent Study	1-4 Credits

Course Number	Course Title	Credits
SOCIO 2200	Introduction to Research Methods	3 Credits
SOCIO 2205	Statistics for the Social and Behavioral	3 Credits
SOCIO 2210	Social Problems	3 Credits
SOCIO 2215	Racial and Ethnic Relations	3 Credits
SOCIO 2220	Sexual Relationships, Marriage & Family	3 Credits
SOCIO 2225	Sociology of Violence	3 Credits
SOCIO 2251	Health & Illness in Contemporary Society	3 Credits
SOCIO 2252	Social Gerontology: Aging and Society	3 Credits
SOCIO 2253	Dying, Death and Bereavement	3 Credits
SOCIO 2290	Sociology of Communication & Media	3 Credits
SOCIO 2800	Special Project	1-4 Credits
SOCIO 2820	Advanced Selected Topics I	3 Credits
SOCIO 2821	Advanced Selected Topics II	3 Credits
SOCIO 2822	Advanced Selected Topics III	3 Credits
SOCIO 2823	Advanced Selected Topics IV	3 Credits
SOCIO 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
SOCIO 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits
SOCIO 2870	Internship (Transfer)	1-4 Credits
SOCIO 2871	Internship - Advanced (Transfer)	1-4 Credits

## Zoology

The zoology program is one of the most established and respected programs within the zoology discipline. It is a computer-based program in which zoology theory and practice receive equal emphasis as applied to both financial and managerial zoology issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's zoology workplace:

- Technical zoology knowledge
- Communication and interpersonal skills
- Career-related computer literacy



- A laptop computer is recommended, but not required, for students entering the zoology program.

## Courses

Course Number	Course Title	Credits
ZOOLO 1220	Insects and Humans	3 Credits
ZOOLO 1800	Special Project	1-3 Credits
ZOOLO 1840	Independent Study	1-4 Credits
ZOOLO 2250	Comparative Vertebrate Zoology	4 Credits
ZOOLO 2260	Invertebrate Zoology	4 Credits
ZOOLO 2800	Special Project	1-3 Credits
ZOOLO 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
ZOOLO 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits
ZOOLO 2870	Internship (Transfer)	1-4 Credits
ZOOLO 2871	Internship - Advanced (Transfer)	1-4 Credits

## Architecture

The architecture program is one of the most established and respected programs within the architecture discipline. It is a computer-based program in which architecture theory and practice receive equal emphasis as applied to both financial and managerial architecture issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's architecture workplace:

- Technical architecture knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the architecture program.

## Courses

Course Number	Course Title	Credits
ARCH 1100	Introduction to Architecture	3 Credits
ARCH 1101	Basic Architectural Drafting	3 Credits

Course Number	Course Title	Credits
ARCH 1111	Building Materials	4 Credits
ARCH 1121	Architectural Design Communication	4 Credits
ARCH 1130	Blueprint Reading	2 Credits
ARCH 1131	Introduction to Architectural Design	4 Credits
ARCH 1141	Construction Methods I	2 Credits
ARCH 1211	Basic Computer-Aided Drafting-AutoCAD	3 Credits
ARCH 1212	Adv Computer-Aided Drafting-AutoCAD	3 Credits
ARCH 1301	Introduction to Construction Management	3 Credits
ARCH 1411	Introduction to BIM-Revit	3 Credits
ARCH 1412	Advanced BIM-Revit	3 Credits
ARCH 1820	Selected Topics in Architecture I	3 Credits
ARCH 1821	Selected Topics in Architecture II	3 Credits
ARCH 1827	Selected Topics in Architecture	1 Credits
ARCH 1840	Independent Study	1-4 Credits
ARCH 2102	Detailing and Construction Documents	4 Credits
ARCH 2142	Construction Methods II	2 Credits
ARCH 2150	Basic Surveying	2 Credits
ARCH 2201	Architectural Design I	5 Credits
ARCH 2202	Architectural Design II	5 Credits
ARCH 2203	Introduction to Architectural Theory	3 Credits
ARCH 2210	Mechanical, Electrical, & Plumb Systems	3 Credits
ARCH 2220	Architectural Computer Modeling	2 Credits
ARCH 2230	Structural Systems	3 Credits
ARCH 2240	Codes, Specifications and Contracts	3 Credits
ARCH 2250	Architectural Presentation and Portfolio	3 Credits
ARCH 2260	Construction Estimating	3 Credits
ARCH 2270	Construction Scheduling	3 Credits
ARCH 2413	BIM Management-Revit	3 Credits
ARCH 2820	Advanced Selected Topics Architecture I	3 Credits

Course Number	Course Title	Credits
ARCH 2823	Advanced Selected Topics Architecture IV	3 Credits
ARCH 2840	Experimental/Pilot Class	1-6 Credits
ARCH 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
ARCH 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits

## Economics

The economics program is one of the most established and respected programs within the economics discipline. It is a computer-based program in which economics theory and practice receive equal emphasis as applied to both financial and managerial economics issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's economics workplace:

- Technical economics knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the economics program.

## Courses

Course Number	Course Title	Credits
ECONO 1110	Consumer Economics and Personal Finance	3 Credits
ECONO 1800	Special Project	1-3 Credits
ECONO 1840	Independent Study	1-4 Credits
ECONO 2200	Principles of Economics	3 Credits
ECONO 2201	Macroeconomics and the Global Economy	3 Credits
ECONO 2202	Microeconomics and the Global Economy	3 Credits
ECONO 2210	Money and Banking	3 Credits
ECONO 2220	Comparative Economic Systems	3 Credits
ECONO 2800	Special Project	1-4 Credits
ECONO 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits

Course Number	Course Title	Credits
ECONO 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits
ECONO 2870	Internship (Transfer)	1-4 Credits
ECONO 2871	Internship - Advanced (Transfer)	1-4 Credits

## Music

The music program is one of the most established and respected programs within the music discipline. It is a computer-based program in which music theory and practice receive equal emphasis as applied to both financial and managerial music issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's music workplace:

- Technical music knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the music program.

## Courses

Course Number	Course Title	Credits
MUSIC 1100	Music Appreciation	3 Credits
MUSIC 1101	Music Theory I	3 Credits
MUSIC 1102	Music Theory II	3 Credits
MUSIC 1104	Introduction to American Music	3 Credits
MUSIC 1105	Music Literature	3 Credits
MUSIC 1106	Fundamentals of Music	3 Credits
MUSIC 1107	Aural Skills I	1 Credits
MUSIC 1108	Aural Skills II	1 Credits
MUSIC 1113	Survey of Music Business	3 Credits
MUSIC 1115	Introduction to World Music	3 Credits
MUSIC 1120	College of Dupage Concert Choir	1 Credits
MUSIC 1125	College of Dupage Jazz Choir	1 Credits
MUSIC 1130	College of Dupage Chamber Singers	1 Credits

Course Number	Course Title	Credits
MUSIC 1140	Symphony Orchestra	1 Credits
MUSIC 1141	Chamber Orchestra	1 Credits
MUSIC 1150	Dupage Chorale	1 Credits
MUSIC 1170	Class Voice	2 Credits
MUSIC 1171	Class Piano I	1 Credits
MUSIC 1172	Class Piano II	1 Credits
MUSIC 1175	Applied Music: Non-Major	1 Credits
MUSIC 1178	Voice Performance Workshop	1 Credits
MUSIC 1180	Community Band	1 Credits
MUSIC 1181	Dupage Community Jazz Ensemble	1 Credits
MUSIC 1185	Applied Music II: Music Major	2 Credits
MUSIC 1190	Small Group Jazz Ensemble	1 Credits
MUSIC 1192	Percussion Ensemble	1 Credits
MUSIC 1193	Guitar Ensemble	1 Credits
MUSIC 1195	Opera Workshop	1 Credits
MUSIC 1200	Group Piano for Non-Music Majors	1 Credits
MUSIC 1820	Selected Topics I	1-3 Credits
MUSIC 1840	Independent Study - Individualized	1-4 Credits
MUSIC 2201	Music Theory III	3 Credits
MUSIC 2202	Music Theory IV	3 Credits
MUSIC 2207	Aural Skills III	1 Credits
MUSIC 2208	Aural Skills IV	1 Credits
MUSIC 2211	Recording Techniques I	3 Credits
MUSIC 2212	Recording Techniques II	3 Credits
MUSIC 2271	Class Piano III	1 Credits
MUSIC 2272	Class Piano IV	1 Credits
MUSIC 2275	Introduction to Piano Pedagogy	2 Credits
MUSIC 2820	Advanced Selected Topics I	3 Credits
MUSIC 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits

Course Number	Course Title	Credits
MUSIC 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits
MUSIC 2870	Internship (Transfer)	1-4 Credits
MUSIC 2871	Internship - Advanced (Transfer)	1-4 Credits

## Political Science

The political science program is one of the most established and respected programs within the political science discipline. It is a computer-based program in which political science theory and practice receive equal emphasis as applied to both financial and managerial political science issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's political science workplace:

- Technical political science knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the political science program.

## Courses

Course Number	Course Title	Credits
POLS 1100	Introduction to Political Science	3 Credits
POLS 1101	American Politics	3 Credits
POLS 1160	Modern Political Ideologies	3 Credits
POLS 1800	Special Project	1-3 Credits
POLS 1820	Selected Topics I	3 Credits
POLS 1821	Selected Topics II	3 Credits
POLS 1822	Selected Topics III	3 Credits
POLS 1823	Selected Topics IV	3 Credits
POLS 1824	Selected Topics V	2 Credits
POLS 1840	Independent Study	1-4 Credits
POLS 2203	Comparative Politics	3 Credits
POLS 2220	World Politics	3 Credits
POLS 2221	Politics of the Middle East	3 Credits

Course Number	Course Title	Credits
POLS 2230	Introduction to Peace & Conflict Studies	3 Credits
POLS 2240	Introduction to U.S. Foreign Policy	3 Credits
POLS 2250	Politics of Latin American & Caribbean	3 Credits
POLS 2800	Special Project	1-3 Credits
POLS 2820	Advanced Selected Topics I	3 Credits
POLS 2821	Advanced Selected Topics II	3 Credits
POLS 2822	Advanced Selected Topics III	3 Credits
POLS 2823	Advanced Selected Topics IV	3 Credits
POLS 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
POLS 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits
POLS 2870	Internship (Transfer)	1-4 Credits
POLS 2871	Internship - Advanced (Transfer)	1-4 Credits

## Horticulture

The horticulture program is one of the most established and respected programs within the horticulture discipline. It is a computer-based program in which horticulture theory and practice receive equal emphasis as applied to both financial and managerial horticulture issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's horticulture workplace:

- Technical horticulture knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the horticulture program.

## Courses

Course Number	Course Title	Credits
HORT 1100	Introduction to Horticulture	3 Credits
HORT 1101	Soils and Fertilizers	3 Credits
HORT 1105	Floral Design I	3 Credits

Course Number	Course Title	Credits
HORT 1110	Applied Plant Taxonomy	3 Credits
HORT 1111	Landscape Design I	3 Credits
HORT 1112	Landscape Maintenance and Construction	3 Credits
HORT 1115	Floral Design II	3 Credits
HORT 1125	Water Conversation in the Landscape	1 Credits
HORT 1130	Horticulture Business	3 Credits
HORT 1131	Landscaping for Wildlife	1 Credits
HORT 1135	Introduction to Green Roofs	1 Credits
HORT 1140	Landscape Graphics	2 Credits
HORT 1141	Sustainable Landscape Design	1 Credits
HORT 1145	Perennial Plant Communities I	2 Credits
HORT 1185	Arboriculture	3 Credits
HORT 1800	Special Project	1-3 Credits
HORT 1820	Selected Topics	3 Credits
HORT 1821	Selected Topics	3 Credits
HORT 1824	Selected Topics	2 Credits
HORT 1826	Selected Topics	1 Credits
HORT 1827	Selected Topics	1 Credits
HORT 1840	Independent Study	1-4 Credits
HORT 2211	Computer-Aided Drafting for Landscape	3 Credits
HORT 2212	Adv. Computer-Aided Draft for Landscape	3 Credits
HORT 2221	Plant Propagation	3 Credits
HORT 2225	Specialty Floral Design	3 Credits
HORT 2231	Turf Science and Management	3 Credits
HORT 2241	Landscape Plants I	3 Credits
HORT 2242	Landscape Plants II	3 Credits
HORT 2243	Ornamental Grasses	2 Credits
HORT 2244	Herbaceous Perennials	3 Credits
HORT 2245	Perennial Plant Communities II	1 Credits



Course Number	Course Title	Credits
HORT 2251	Diseases of Ornamental Plants	3 Credits
HORT 2253	Greenhouse Operations and Procedures	3 Credits
HORT 2255	Greenhouse Crop Production	3 Credits
HORT 2257	Bedding Plant Production	3 Credits
HORT 2261	Insects of Ornamental Plants	3 Credits
HORT 2271	Landscape Design II	3 Credits
HORT 2800	Special Project	1-3 Credits
HORT 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
HORT 2863	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	3 Credits
HORT 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits

## Human Services

The human services program is one of the most established and respected programs within the human services discipline. It is a computer-based program in which human services theory and practice receive equal emphasis as applied to both financial and managerial human services issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's human services workplace:

- Technical human services knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the human services program.

## Courses

Course Number	Course Title	Credits
HUMAN 1100	Introduction to Human Services	4 Credits
HUMAN 1105	Esteem Building	2 Credits
HUMAN 1113	Interpersonal Dynamics	4 Credits
HUMAN 1114	Contemporary Practice Models	3 Credits

<b>Course Number</b>	<b>Course Title</b>	<b>Credits</b>
HUMAN 1115	Behavior Modification	3 Credits
HUMAN 1121	Cross-Cultural Communications	4 Credits
HUMAN 1125	Introduction to Addictions	4 Credits
HUMAN 1126	Psychopharmacology for Addictions Course	3 Credits
HUMAN 1130	Psychedelic Mindview	2 Credits
HUMAN 1140	Mental Health First Aid	1 Credits
HUMAN 1141	Psychiatric Rehabilitation	4 Credits
HUMAN 1142	Psychiatric Rehabilitation Skills	4 Credits
HUMAN 1143	Health Skills Psychiatric Rehabilitation	4 Credits
HUMAN 1144	Vocational and Community Living Skills	4 Credits
HUMAN 1160	Residential Child Care	4 Credits
HUMAN 1165	Dynamics of Child Abuse	3 Credits
HUMAN 1170	Role of Advocacy in Human Services	2 Credits
HUMAN 1175	Crisis Intervention	2 Credits
HUMAN 1180	Domestic/Family Violence	4 Credits
HUMAN 1190	Introduction-Developmental Disabilities	5 Credits
HUMAN 1800	Special Project	1-3 Credits
HUMAN 1820	Selected Topics I	1-3 Credits
HUMAN 1840	Independent Study	1-4 Credits
HUMAN 2200	Human Services Corrections Counseling	4 Credits
HUMAN 2212	Group Dynamics	3 Credits
HUMAN 2213	Grief Counseling	3 Credits
HUMAN 2214	Older Adult Care Management	4 Credits
HUMAN 2223	Generalist Practice I	2 Credits
HUMAN 2225	Addictions Counseling I	4 Credits
HUMAN 2226	Addictions Counseling II	3 Credits
HUMAN 2240	Family Education and Treatment Models	3 Credits
HUMAN 2245	Introduction to Eating Disorders	3 Credits
HUMAN 2251	Fieldwork I	4 Credits

Course Number	Course Title	Credits
HUMAN 2252	Fieldwork II	4 Credits
HUMAN 2274	Legal Issues in Counseling	1 Credits
HUMAN 2279	Ethics in Counseling	2 Credits
HUMAN 2280	Addictions Counseling III	3 Credits
HUMAN 2284	CADC Exam Preparation	1 Credits
HUMAN 2285	Divorce and Family Mediation	4 Credits
HUMAN 2286	Assessment of Trauma for Veterans	3 Credits
HUMAN 2287	Post Trauma Stress & Co-Morbid Disorders	3 Credits
HUMAN 2288	Treatment for Veteran Population & Fam	3 Credits
HUMAN 2289	Counseling Focusing - Veteran Population	3 Credits
HUMAN 2290	Appropriate Referral-Veterans' Needs	1 Credits
HUMAN 2860	Internship (Career & Technical Ed)	1-4 Credits
HUMAN 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits

## Mathematics

The mathematics program is one of the most established and respected programs within the mathematics discipline. It is a computer-based program in which mathematics theory and practice receive equal emphasis as applied to both financial and managerial mathematics issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's mathematics workplace:

- Technical mathematics knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the mathematics program.

## Courses

Course Number	Course Title	Credits
MATH 0405	Study Skills: Math Anxiety	1 Credits
MATH 0408	Arithmetic Whole Numbers I	0.5 Credits
MATH 0409	Arithmetic Whole Numbers II	0.5 Credits

Course Number	Course Title	Credits
MATH 0410	Arithmetic of Whole Numbers	0.5 Credits
MATH 0412	Arithmetic of Fractions I	0.5 Credits
MATH 0413	Arithmetic of Fractions II	0.5 Credits
MATH 0415	Arithmetic of Decimals	0.5 Credits
MATH 0417	Arithmetic of Percents	0.5 Credits
MATH 0418	Arithmetic of Ratio/Proportion	0.5 Credits
MATH 0420	Arithmetic: Special Topics	0.5 Credits
MATH 0422	Arithmetic of Signed Numbers	0.5 Credits
MATH 0424	Algebra: Solving Linear Equations	0.5 Credits
MATH 0426	Algebra: Word Problems	0.5 Credits
MATH 0428	Algebra: Exponents	0.5 Credits
MATH 0430	Algebra: Factoring	0.5 Credits
MATH 0432	Algebra: Fractions	0.5 Credits
MATH 0434	Algebra: Graphing	0.5 Credits
MATH 0436	Algebra: Systems of Linear Equations	0.5 Credits
MATH 0438	Algebra: Radicals	0.5 Credits
MATH 0440	Algebra: Quadratic Equations	0.5 Credits
MATH 0451	Essentials of Arithmetic I	2 Credits
MATH 0452	Essentials of Arithmetic II	2 Credits
MATH 0455	Fundamentals of Algebra	2 Credits
MATH 0460	College Arithmetic	3 Credits
MATH 0470	Elementary Plane Geometry	3 Credits
MATH 0481	Foundations for College Mathematics I	5 Credits
MATH 0482	Foundations for College Mathematics II	5 Credits
MATH 0485	Algebra Refresher Workshop	0.5 Credits
MATH 1100	Business Mathematics	3 Credits
MATH 1102	Mathematics for Health Sciences	3 Credits
MATH 1104	Mathematics for Horticulture	3 Credits
MATH 1108	Perspectives of Mathematics	3 Credits

Course Number	Course Title	Credits
MATH 1115	Technical Mathematics I	3 Credits
MATH 1116	Technical Mathematics II	5 Credits
MATH 1120	Mathematical Foundations for Diagnostic	3 Credits
MATH 1218	General Education Mathematics	3 Credits
MATH 1220	Quantitative Literacy	3 Credits
MATH 1321	Math for Elementary School Teacher I	4 Credits
MATH 1322	Math for Elementary School Teacher II	3 Credits
MATH 1340	History of Mathematics	3 Credits
MATH 1428	College Algebra With Applications	3 Credits
MATH 1431	Precalculus I	5 Credits
MATH 1432	Precalculus II/Trigonometry	3 Credits
MATH 1533	Finite Mathematics	4 Credits
MATH 1635	Statistics	4 Credits
MATH 1820	Selected Topics I	1-3 Credits
MATH 1840	Independent Study	1-4 Credits
MATH 2115	Discrete Mathematics	3 Credits
MATH 2134	Calculus for Business and Social Science	4 Credits
MATH 2231	Calculus and Analytic Geometry I	5 Credits
MATH 2232	Calculus and Analytic Geometry II	5 Credits
MATH 2233	Calculus and Analytic Geometry III	4 Credits
MATH 2235	Additional Topics in Vector Calculus	1 Credits
MATH 2245	Linear Algebra	4 Credits
MATH 2270	Differential Equations	4 Credits
MATH 2300	Mathematical Proof	3 Credits
MATH 2820	Advanced Selected Topics I	1-3 Credits
MATH 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
MATH 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits
MATH 2870	Internship (Transfer)	1-4 Credits
MATH 2871	Internship - Advanced (Transfer)	1-4 Credits

## Theater

The theater program is one of the most established and respected programs within the theater discipline. It is a computer-based program in which theater theory and practice receive equal emphasis as applied to both financial and managerial theater issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's theater workplace:

- Technical theater knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the theater program.

## Courses

Course Number	Course Title	Credits
THEAT 1100	Theater Appreciation	3 Credits
THEAT 1105	Improviseational Acting	3 Credits
THEAT 1108	Voice and Diction	2 Credits
THEAT 1109	Stage Movement	2 Credits
THEAT 1110	Stage Combat - Unarmed	3 Credits
THEAT 1111	Acting I	3 Credits
THEAT 1112	Acting II	3 Credits
THEAT 1113	Stage Combat-Armed	3 Credits
THEAT 1114	Audition	3 Credits
THEAT 1115	Stage Make-Up	3 Credits
THEAT 1116	Stage Management	3 Credits
THEAT 1120	Rehearsal and Performance	1-3 Credits
THEAT 1121	Performance Practicum	1-3 Credits
THEAT 1123	Play Production	1-3 Credits
THEAT 1140	Summer Repertory Theater	6 Credits
THEAT 1151	Dance Theater I	2 Credits
THEAT 1152	Dance Theater II	2 Credits
THEAT 1800	Special Project	1-3 Credits

Course Number	Course Title	Credits
THEAT 1820	Selected Topics I	3 Credits
THEAT 1823	Selected Topics II	3 Credits
THEAT 1840	Independent Study	1-4 Credits
THEAT 2211	Repertory Acting	3 Credits
THEAT 2221	Stagecraft	3 Credits
THEAT 2222	Technical Production	3 Credits
THEAT 2230	Play Directing	3 Credits
THEAT 2800	Special Project	1-3 Credits
THEAT 2820	Advanced Selected Topics I	3 Credits
THEAT 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
THEAT 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits
THEAT 2870	Internship (Transfer)	1-4 Credits
THEAT 2871	Internship - Advanced (Transfer)	1-4 Credits

## French

The french program is one of the most established and respected programs within the french discipline. It is a computer-based program in which french theory and practice receive equal emphasis as applied to both financial and managerial french issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's french workplace:

- Technical french knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the french program.

## Courses

Course Number	Course Title	Credits
FRENC 1100	Civilization and Culture of France	3 Credits
FRENC 1101	Elementary French I	4 Credits
FRENC 1102	Elementary French II	4 Credits

Course Number	Course Title	Credits
FRENC 1840	Independent Study	1-4 Credits
FRENC 2201	Intermediate French I	4 Credits
FRENC 2202	Intermediate French II	4 Credits
FRENC 2251	Conversation and Composition I	3 Credits
FRENC 2252	Conversation and Composition II	3 Credits
FRENC 2820	Advanced Selected Topics	1-4 Credits
FRENC 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
FRENC 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits
FRENC 2870	Internship (Transfer)	1-4 Credits
FRENC 2871	Internship - Advanced (Transfer)	1-4 Credits

## Health Sciences

The health sciences program is one of the most established and respected programs within the health sciences discipline. It is a computer-based program in which health sciences theory and practice receive equal emphasis as applied to both financial and managerial health sciences issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's health sciences workplace:

- Technical health sciences knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the health sciences program.

## Courses

Course Number	Course Title	Credits
HLTHS 1100	Survey of Health Care Careers	2 Credits
HLTHS 1101	Survey Health Care Careers: Field Study	2 Credits
HLTHS 1106	Rehabilitation Aide	2 Credits
HLTHS 1110	Biomedical Terminology	4 Credits
HLTHS 1115	Pharmacy Technician	5 Credits



Course Number	Course Title	Credits
HLTHS 1120	Introduction to Clinical Lab Science	3 Credits
HLTHS 1122	Basic Phlebotomy Techniques	4 Credits
HLTHS 1123	Phlebotomy for Health Professionals	2 Credits
HLTHS 1124	Phlebotomy Clinical	2 Credits
HLTHS 1125	Phlebotomy Exam Review	1 Credits
HLTHS 1126	Basic Non-Invasive Electrocardiography	2 Credits
HLTHS 1127	EKG Clinical	1 Credits
HLTHS 1128	Adv Non-Invasive Electrocardiography	3 Credits
HLTHS 1129	Non-Invasive Ekg Clinical	1 Credits
HLTHS 1145	Health Care Collaboration	3 Credits
HLTHS 1150	CPR-Basic Life Support-Healthcare Prvdr	1 Credits
HLTHS 1160	CPR-Basic Life Support Instructor	1 Credits
HLTHS 1800	Special Project	1-3 Credits
HLTHS 1820	Selected Topics	1-3 Credits
HLTHS 1821	Selected Topics	3 Credits
HLTHS 1840	Independent	1-4 Credits
HLTHS 2235	Pharmacology for Med Assisting	3 Credits
HLTHS 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
HLTHS 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits

## Paralegal Studies

The paralegal studies program is one of the most established and respected programs within the paralegal studies discipline. It is a computer-based program in which paralegal studies theory and practice receive equal emphasis as applied to both financial and managerial paralegal studies issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's paralegal studies workplace:

- Technical paralegal studies knowledge
- Communication and interpersonal skills
- Career-related computer literacy

- A laptop computer is recommended, but not required, for students entering the paralegal studies program.

## Courses

Course Number	Course Title	Credits
PLGL 1100	Introduction to Paralegal Studies	3 Credits
PLGL 1150	Drafting Legal Documents	3 Credits
PLGL 1200	Civil Litigation	3 Credits
PLGL 1250	Legal Ethics/Law Office Organization	3 Credits
PLGL 1500	Intro to Legal Research and Writing	3 Credits
PLGL 1820	Selected Topics I	1-3 Credits
PLGL 2100	Advanced Legal Research and Writing	3 Credits
PLGL 2150	Bankruptcy Law	3 Credits
PLGL 2200	Criminal Law and Procedure	3 Credits
PLGL 2225	Contract Law	3 Credits
PLGL 2250	Corporations and Other Business Organiza	3 Credits
PLGL 2275	Environmental Law	3 Credits
PLGL 2280	Elder Law	3 Credits
PLGL 2300	Estate Planning and Probate Law	3 Credits
PLGL 2350	Family Law	3 Credits
PLGL 2380	Immigration Law	3 Credits
PLGL 2400	Intellectual Property Law	3 Credits
PLGL 2410	Labor & Employment Law	3 Credits
PLGL 2425	Law Office Technology	3 Credits
PLGL 2450	Real Property Law	3 Credits
PLGL 2500	Personal Injury, Tort and Insurance Law	3 Credits
PLGL 2600	Paralegal Practicum	3 Credits
PLGL 2700	Paralegal Practicum II	3 Credits
PLGL 2820	Advanced Selected Topics I	1-3 Credits
PLGL 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits

Course Number	Course Title	Credits
PLGL 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits

## Cosmetology

The cosmetology program is one of the most established and respected programs within the cosmetology discipline. It is a computer-based program in which cosmetology theory and practice receive equal emphasis as applied to both financial and managerial cosmetology issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's cosmetology workplace:

- Technical cosmetology knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the cosmetology program.

## Courses

Course Number	Course Title	Credits
COSME 1101	Introduction to Cosmetology	3 Credits
COSME 1103	Chemical Services I	3 Credits
COSME 1105	Hair Styling I	3 Credits
COSME 1107	Thermal Styling I	3 Credits
COSME 1111	Hair Styling II	3 Credits
COSME 1113	Chemical Services II	3 Credits
COSME 1115	Salon Operations I	2 Credits
COSME 1117	Esthetics and Nail Technology I	3 Credits
COSME 1120	License Review I	2 Credits
COSME 1160	Nail Technology Theory I	2 Credits
COSME 1162	Nail Technology Lab I	3 Credits
COSME 1164	Nail Technology Professional Practice	1 Credits
COSME 1166	Salon Management and Marketing	2 Credits
COSME 1168	Nail Technology Theory II	1 Credits
COSME 1170	Nail Technology Lab II	3 Credits

Course Number	Course Title	Credits
COSME 1172	Nail Technology Theory III	2 Credits
COSME 2201	Hair Styling III	3 Credits
COSME 2203	Chemical Services III	3 Credits
COSME 2205	Esthetics and Nail Technology II	3 Credits
COSME 2207	Salon Safety and Sanitation	2 Credits
COSME 2221	Hair Styling IV	3 Credits
COSME 2223	Chemical Services IV	3 Credits
COSME 2225	Salon Operations II	3 Credits
COSME 2227	Thermal Styling II	2 Credits
COSME 2250	License Review	3 Credits
COSME 2253	Advanced Chemical Services II	2 Credits
COSME 2860	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	1-4 Credits
COSME 2862	Internship (Career & Technical Ed)yCoop Ed/Internship Occup	2 Credits
COSME 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits

## Fashion Studies

The fashion studies program is one of the most established and respected programs within the fashion studies discipline. It is a computer-based program in which fashion studies theory and practice receive equal emphasis as applied to both financial and managerial fashion studies issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's fashion studies workplace:

- Technical fashion studies knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the fashion studies program.

## Courses

Course Number	Course Title	Credits
FASHI 1101	Flat Pattern Drafting I	3 Credits
FASHI 1102	Flat Pattern Drafting II	3 Credits
FASHI 1105	Design Principles in Apparel	3 Credits
FASHI 1110	Machine Knitting I	1.5 Credits
FASHI 1112	Machine Knitting II	1.5 Credits
FASHI 1114	Weaving I	1.5 Credits
FASHI 1116	Weaving II	1.5 Credits
FASHI 1120	Fashion Promotion	3 Credits
FASHI 1130	History of Costume I	3 Credits
FASHI 1131	History of Costume II	3 Credits
FASHI 1151	Principles of Textiles	3 Credits
FASHI 1155	Clothing Construction I	3 Credits
FASHI 1156	Clothing Construction II	3 Credits
FASHI 1160	Tailoring	3 Credits
FASHI 1165	Clothing Construction for the Apparel in	3 Credits
FASHI 1180	Bus Practices - Fashion Entrepreneur	3 Credits
FASHI 1183	Felting and Fusing	1.5 Credits
FASHI 1800	Special Project	1-4 Credits
FASHI 1820	Selected Topics in Fashion Merchandising	1-3 Credits
FASHI 1821	Selected Topics	3 Credits
FASHI 1840	Independent Study	1-4 Credits
FASHI 2201	Draping	3 Credits
FASHI 2202	Design Studio: Apparel	3 Credits
FASHI 2204	Bridal Couture I: Bridal & Special Occas	1.5 Credits
FASHI 2206	Bridal Couture II	1.5 Credits
FASHI 2208	Millinery Design I	1.5 Credits
FASHI 2210	Millinery Design II	1.5 Credits
FASHI 2211	Fashion Illustration	3 Credits

<b>Course Number</b>	<b>Course Title</b>	<b>Credits</b>
FASHI 2212	Advanced Fashion Illustration	3 Credits
FASHI 2220	Visual Merchandising	3 Credits
FASHI 2222	Computer-Aided Apparel Design I	3 Credits
FASHI 2223	Computer-Aided Apparel Design II	3 Credits
FASHI 2224	Production Pattern Grading	3 Credits
FASHI 2231	Fashion Marketing and Merchandising	3 Credits
FASHI 2235	Apparel Quality Analysis	3 Credits
FASHI 2240	Design Studio: Fibers	3 Credits
FASHI 2245	Design Collection Development	3 Credits
FASHI 2251	Fashion Motivation	3 Credits
FASHI 2255	Design Studio: Marketing the Collection	3 Credits
FASHI 2261	Textile Design I	3 Credits
FASHI 2262	Textile Design II	3 Credits
FASHI 2430	Apparel Production Management	3 Credits
FASHI 2460	Fashion Law and Ethics	3 Credits
FASHI 2630	Fashion Stylist	3 Credits
FASHI 2820	Advanced Selected Topics	1-6 Credits
FASHI 2860	Internship (Career & Technical Ed)	1-4 Credits
FASHI 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits

## Accounting

### Bookkeeping - a Practical Focus

ACCOU 0430 - 2 Credits

Introduction to the accounting cycle of a service company, emphasizing basic accounting concepts. (2 lecture hours)

### Accounting Procedures

ACCOU 1110 - 3 Credits

The accounting cycles of service organizations and merchandisers focusing on the recording of business transactions and the preparation of financial statements for such organizations. Includes specific accounting concepts relating to current assets, long-term assets, current liabilities, payroll and the operations of corporations. (3 lecture hours)

### Financial Accounting

ACCOU 1140 - 4 Credits

An introduction to financial accounting concepts. A study of the accounting cycles of service organizations and merchandisers emphasizing the recording of business transactions, and the preparation of financial statements for such organizations. Emphasis is also placed on the accounting

principles relating to the measurement, valuation and reporting of assets, liabilities and equity, and related internal control considerations. (4 lecture hours)

### Managerial Accounting

ACCOU 1150 - 4 Credits

An introduction to managerial accounting and cost concepts. A study of the accounting cycle of manufacturers emphasizing the recording of business transactions relating to the manufacture of inventory and the preparation of financial statements. Emphasis is also placed on analysis of cost behavior, budgeting concepts, standard cost systems and variance analysis, and the use of accounting information to make decisions. Prerequisite: Accounting 1140 or consent of instructor (4 lecture hours)

### Microcomputer Accounting

ACCOU 1175 - 2 Credits

Introduction to a general ledger software package on a microcomputer. Keyboarding and mouse skills are required. Prerequisite: Accounting 1110 or Accounting 1140 or consent of the instructor (2 lecture hours)

### Independent Study

ACCOU 1840 - 1-4 Credits

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. This course may be taken four times for credit as long as different topics are selected. Prerequisite: Consent of instructor is required (1 to 4 lecture hours)

### Income Tax Return Preparation

ACCOU 2200 - 3 Credits

Individual income tax return preparation emphasizing the completion of basic tax returns. Resources are provided under the Volunteer Income Tax Assistance (VITA) program which is administered by the Internal Revenue Service. Prerequisite: Accounting 1140 or consent of instructor (3 lecture hours)

### Federal Taxation I

ACCOU 2205 - 3 Credits

Federal income tax concepts relating to individuals and sole proprietorships. Prerequisite:

## Adult Basic Education

### Reading Skills Development I

ABE 0700 - 3 Credits

Introduces basic word recognition and word attack skills including pre-reading skills, sight words, phonics skills and structural analysis skills; comprehension and advanced reading skills in relation to words, sentences, selections and sequence; specialized skills in locating and organizing information, reading maps, interpreting graphs, tables or diagrams; and the development of personal reading skills. Mandatory testing. This course may be taken four times for credit; course does not count toward GPA/graduation and is non-transferable. This course can only be taken on a pass/fail basis. Prerequisite: Consent of instructor is required (3 lecture hours)

### Reading Skills Development II

ABE 0701 - 3 Credits

Reinforces and reviews basic word recognition and word attack skills including pre-reading skills, sight words, phonics skills and structural analysis skills; comprehension and advanced reading skills in relation to words, sentences,

selections and sequence; specialized skills in locating and organizing information, reading maps, interpreting graphs, tables or diagrams; and the development of personal reading skills. This course may be taken four times for credit; course does not count toward GPA/graduation and is non-transferable. This course can only be taken on a pass/fail basis. Prerequisite: Consent of instructor is required (3 lecture hours)

### Pre-GED Reading Skills I

ABE 0702 - 3 Credits

Reinforces and reviews word recognition and word attack skills of structural analysis; comprehension and advanced reading skills including deriving meaning from words, sentences, selections and identifying sequence; specialized reading skills including locating and organizing information, reading maps and interpreting graphs, tables or diagrams. This course may be taken four times for credit; course does not count toward GPA/graduation and is non-transferable. This course can only be taken on a pass/fail basis. Prerequisite: Consent of instructor is required (3 lecture hours)

### Pre-GED Reading Skills II

ABE 0703 - 3 Credits

Introduces personal reading skills and reading in the social studies and science content area. This course may be taken four times for credit; course does not count toward GPA/graduation and is non-transferable. This course can only be taken on a pass/fail basis. Prerequisite: Consent of instructor is required (3 lecture hours)

### Basic English Skills I

ABE 0710 - 3 Credits

Introduces basic English grammar and usage, spelling/vocabulary/dictionary use, capitalization and punctuation. Mandatory testing. This course may be taken four times for credit; course does not count toward GPA/graduation and is non-transferable. This course can only be taken on a pass/fail basis. Prerequisite: Consent of instructor is required (3 lecture hours)

### Basic English Skills II

ABE 0711 - 3 Credits

Expands knowledge of English grammar, usage, and sentence structure, and includes composition of English



## **Anatomy & Physiology**

### **Survey of Human Anatomy and Physiology**

ANAT 1500 - 4 Credits

Essential principles of human anatomy and physiology are presented, including basic chemistry, cell and tissue studies, and an overview of all the body systems. Intended as a survey course for certain allied health and social service programs, and as a general natural science course. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours, 2 lab hours)

### **Human Anatomy and Physiology I**

ANAT 1551 - 4 Credits

First semester of a two-semester sequence dealing with the structure and function of the human body and mechanisms for maintaining homeostasis within it. Includes the study of cells, tissues, and the integumentary, skeletal, muscular and nervous systems. Course is intended to be an alternative to Anatomy & Physiology 1571; credit toward graduation will be granted for Anatomy & Physiology 1551 or Anatomy & Physiology 1571, but not for both. Biology 1151

is strongly recommended. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours, 3 lab hours)

### **Human Anatomy and Physiology II**

ANAT 1552 - 4 Credits

Continuation of the study of the structure and function of the human body and the mechanisms for maintaining homeostasis within it. The endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary and reproductive systems, as well as the concepts of development, metabolism, fluid and electrolyte balance, and acid-base balance are included. Course is intended to be an alternative to Anatomy & Physiology 1572; credit toward graduation will be granted for Anatomy & Physiology 1552 or Anatomy & Physiology 1572 but not for both. Prerequisite: Anatomy & Physiology 1551 or Anatomy & Physiology 1571, with a grade of C or better. Course requires Reading Placement Test Score-Category One (3 lecture hours, 3 lab hours)

### **Anatomy and Physiology With Cadaver I**

ANAT 1571 - 4 Credits

First semester of a two-semester sequence dealing with the structure and function of the human body and mechanisms for maintaining homeostasis within it. Includes the study of cells, tissues, and the integumentary, skeletal, muscular and nervous systems. Identification of anatomical structures on cadavers will be required in the laboratory. Course is intended to be an alternative to Anatomy & Physiology 1551; credit toward graduation will be granted for Anatomy & Physiology 1551 or Anatomy & Physiology 1571 but not for both. Biology 1151 is strongly recommended. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours, 3 lab hours)

### **Anatomy and Physiology With Cadaver II**

ANAT 1572 - 4 Credits

Continuation of the study of the structure and function of the human body and the mechanisms for maintaining

# Anthropology

## Introduction to Anthropology

ANTHR 1000 - 3 Credits

Introduces students to the four primary sub-fields of anthropology as well as the applications of anthropological work in addressing domestic, international, and cross-cultural issues and dilemmas. Emphasis is placed on the complementary and interrelated nature of archaeology, cultural anthropology, biological anthropology, and linguistic anthropology. (3 lecture hours)

## Cultural Anthropology

ANTHR 1100 - 3 Credits

Introduces cultural anthropology as a subfield of anthropology that studies contemporary societies. Focuses on patterns in human behavior and on culture as the way people live and adapt to their various situations. Emphasis is on the diversity of cultural patterns throughout the world and the essential humanity of all people. Examples from a wide variety of cultures are presented in a variety of formats. (3 lecture hours)

## Practical Anthropology

ANTHR 1105 - 3 Credits

Concentrates on how concepts, techniques and information from anthropology can be applied to helping people solve their problems and improve their lives. Emphasizes the relevance of anthropology to development issues and to concerns of many career fields such as business, medicine, social work, teaching and management. Course examples are drawn from diverse parts of the world. Individual project(s) relate to students' interests and/or careers. (3 lecture hours)

## Business Anthropology

ANTHR 1110 - 3 Credits

Holistic approach to economic systems examining how family, language, religion, class, education and gender roles inform economic practices. Emphasis on the diversity of cultural patterns throughout the world and the essential humanity of all people. (3 lecture hours)

## People and Cultures of the World

ANTHR 1130 - 3 Credits

An introductory exploration of specific populations and cultures in different areas of the world today, focusing on

interaction between a society's culture and its environmental, demographic, and historical conditions. Emphasis on the areas of subsistence, religion, and/or urbanization/complexity. (3 lecture hours)

## Discovering Archaeology

ANTHR 1200 - 3 Credits

Introduces archaeology as a subfield of anthropology that studies humanity's prehistory, history and present through the study of material remains and the archaeological record of human development. Emphasis is placed on what archaeologists do and the science of archaeology. (2 lecture hours, 2 lab hours)

## Ancient Civilizations and Societies

ANTHR 1210 - 3 Credits

Explores the emergence of human societies and civilizations through archaeology. This course covers major landmarks in the development of human civilizations including the emergence of humankind, the development of agriculture, urbanism, and the high civilizations of antiquity. (3 lecture hours)

## Language and Culture

ANTHR 1300 - 3 Credits

Introduces Linguistic Anthropology as a subfield of Anthropology that explores

how humans communicate. Focuses on language as the basis for social relations and culture. Emphasis is on the similarities and differences of human

languages, the cognitive basis for language, the formation of communication systems, and the adaptive use of those systems in human societies. (3 lecture hours)

# Architecture

## Introduction to Architecture

ARCH 1100 - 3 Credits

Introductory study of the theory, history, and principles, and of architecture. Basic principles of architectural analysis, criticism, and aesthetic principles. Includes the relationship of architecture to the cultures that create it specifically in terms of the societies' economic, political and social organization, technological abilities, and spiritual values. Also discusses ethical responsibilities of design professionals especially as environmental stewards. (3 lecture hours)

## Basic Architectural Drafting

ARCH 1101 - 3 Credits

Fundamentals of hand drafting and architectural conventions. Includes use of tools, lettering, dimensioning, drafting techniques, and frame construction vocabulary and technology. (2 lecture hours, 2 lab hours)

## Building Materials

ARCH 1111 - 4 Credits

Characteristics, properties, and applicable standards of construction materials. Includes all major structural, enclosure and finish materials and standards for materials. Emphasis on the process of material selection and evaluation including sustainability concepts and criteria. (4 lecture hours)

## Architectural Design Communication

ARCH 1121 - 4 Credits

Introduction to 2-D and 3-D communication and presentation techniques as used in architecture. Includes orthographic, paraline, perspective and freehand drawing techniques and procedures. Covers basic model building and the use of drawing as a problem abstraction and diagramming technique. (1 lecture hour, 6 lab hours)

## Blueprint Reading

ARCH 1130 - 2 Credits

A survey of graphic construction drawings including paper and electronic mediums. Students learn to interpret construction drawings for residential, commercial and industrial structures. Includes architectural and engineering documents and graphic conventions. (1 lecture hour, 2 lab hours)

## Introduction to Architectural Design

ARCH 1131 - 4 Credits

Basic design theories and strategies related to the development of spatial concepts in architectural design, including composition, color, form, relationship of elements, and development of 2-D and 3-D design projects. Emphasis on concept generation and evaluation. Prerequisite: Architecture 1100 and Architecture 1121 with a grade of C or better, or equivalent or consent of instructor (2 lecture, 4 lab hours)

## Construction Methods I

ARCH 1141 - 2 Credits

Survey of basic construction techniques and procedures

through project applications. Topics include concrete, masonry, wood frame and lightweight steel construction methods and materials.

Includes tool selection and use. Course is not designed to give students trade skills in these areas. (1 lecture hour, 2 lab hours)

## Art

### Introduction to the Visual Arts

ART 1100 - 3 Credits

Overview of the visual arts as transmitters of cultural, humanistic and aesthetic values. Global selections from the remote past to the present examined in thematic studies including visual elements and design principles, motivations for art making within cultural and historical contexts, material processes, and issues in world art. Designed to encourage visual literacy and develop analytical skills of the non-art major. Field trip may be required. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours)

historic models of drawing. (6 lab hours)

background is required. (6 lab hours)

### Drawing II

ART 1102 - 3 Credits

Continued exploration of the nature, scope, and principles of drawing. Further development of critical thinking and visual problem solving abilities. Exploration of additional concepts, materials, and processes of visual art. Completion of Art 1151 is recommended prior to enrollment. Prerequisite: Art 1101 with grade of C or better or equivalent (6 lab hours)

### Introduction to Ceramics

ART 1140 - 3 Credits

Introduction to the materials, techniques, and concepts in ceramics. Includes handbuilding, throwing, surface treatment, and kiln loading. Course is intended for the general interest student. (6 lab hours)

### Drawing I

ART 1101 - 3 Credits

Introductory studio course with emphasis on accurate observation and representation, informed use of drawing materials, and awareness of two-dimensional art elements. Course includes vocabulary development and reference to

### Introduction to Studio Art

ART 1105 - 3 Credits

Introduction to art methods and materials. Includes two-dimensional and three-dimensional design concepts introduced through a variety of media. May include painting, drawing, ceramics, sculpture, computer art, jewelry, and printmaking. Field trip may be required. Course is intended for non-art majors. No previous art

### Two-Dimensional Foundations Studio

ART 1151 - 3 Credits

Studio course exploring the principles and elements of 2-D art and design. Development of visual awareness, critical thinking and problem-solving abilities. Emphasis will be placed on concepts, materials and processes associated with the principles of visual perception. (6 lab hours)

### Three-Dimensional Foundations Studio

ART 1152 - 3 Credits

# Automotive Service Technology

## Automotive for Non-Majors

AUTO 1040 - 3 Credits

Overview of personal auto maintenance principles. Topics include proper maintenance for longevity, resale value, and safety; how vehicle systems work; and how to complete some light vehicle repairs. (2 lecture hours, 2 lab hours)

## Engine Design and Operation

AUTO 1110 - 3 Credits

Design, operation and troubleshooting procedures of the gasoline engine. Includes disassembly, identification and inspection of parts, use of service manuals, safety and shop procedures. Prerequisite: Course requires Reading Placement Test Score-Category One or consent of instructor (1 lecture hour, 4 lab hours)

## Manual Drive Train and Axles

AUTO 1120 - 4 Credits

Inspection, construction, nomenclature, diagnosis, disassembly and assembly of manual drive train components including clutch, manual transmission, driveshaft,

universal joint, constant velocity joint, final drive, manual transaxle, transfer case and locking hub assemblies. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours, 2 lab hours)

## Automotive Basic Electricity

AUTO 1131 - 4 Credits

Automotive circuit construction emphasizing meter usage. Analog and digital meters and oscilloscopes are stressed. Practical approach to reading wiring diagrams, service manuals and manufacturers' repair procedures, including diagnosis of selected vehicle accessory circuits. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours, 2 lab hours)

## Suspension, Steering and Alignment

AUTO 1140 - 3 Credits

Front and rear suspension systems for front-wheel drive and rear-wheel drive vehicles. Steering systems, including rack and pinion, are diagnosed and repaired. Wheels and tires and their effect on handling

and ride. Wheel alignment angles are measured and adjusted. Prerequisite: Course requires Reading Placement Test Score-Category One or consent of instructor (1 lecture hour, 4 lab hours)

## Automotive Engine Electricity

AUTO 1232 - 4 Credits

Starting and charging systems, including starting and charging components. System testing for both no-start and preventive maintenance conditions and charging system construction and on-car testing. Construction, operation, function and testing of ignition systems of current vehicles, including electronic ignition, distributorless ignition and oscilloscope testing. Prerequisite: Automotive Service Technology 1131 with a grade of C or better or equivalent or consent of instructor. Course requires Reading Placement Test Score-Category One (3 lecture hours, 2 lab hours)

## Braking Systems

AUTO 1240 - 4 Credits

Automotive braking systems including rotor and drum machining, caliper and wheel



# Biology

## Biology Study Skills

BIOLO 0470 - 1 Credits

Designed for students who need basic knowledge, improvement or practice in study skills for biology. This course includes basic study techniques, techniques specific for biology terminology, text and lecture notes, problem solving, laboratory skills, test-taking techniques and biology resources. This course is especially appropriate for students in Biology 1100 and 1151, or those who have little or no experience in biology. This course can only be taken on a pass/fail basis. Prerequisite: Course requires Reading Placement Test Score-Category One (1 lecture hour)

## Survey of Biology

BIOLO 1100 - 4 Credits

This biology course promotes scientific literacy for non-science majors and interested students. Organisms are studied from their behavioral, ecological, hereditary and evolutionary perspectives. An inquiry-based approach to understanding biological processes is emphasized. Students explore the relevance of biology to contemporary issues in human society.

Prerequisite: Mathematics 0481 (or college equivalent) with a C or better, or a qualifying score on the mathematics placement test or a qualifying A.C.T. math score. Course requires Reading Placement Test Score-Category One (3 lecture hours, 2 lab hours)

## Environmental Biology

BIOLO 1110 - 4 Credits

An interdisciplinary study of the environment investigating how nature works and how things are interconnected. Based on an understanding of ecological concepts and principles, students examine lifestyle issues and critically analyze the relationship among population, natural resources, land use, agriculture, biodiversity, industrialization and pollution. Environmental problems are examined from scientific, ethical, economic and sociological perspectives to enable students to understand the relevance of biology to contemporary issues in human society. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours, 2 lab hours)

## Introduction to Genetics

BIOLO 1120 - 3 Credits

This course provides an introduction to the principles of genetics emphasizing the significance of genetics to human culture, including classical transmission genetics, molecular genetics and biotechnology, and the genetics of populations. Prerequisite: Mathematics 0481 (or college equivalent) with a grade of C or better or qualifying score on the mathematics placement test or a qualifying A.C.T. math score. Course requires Reading Placement Test Score - Category One (3 lecture hours)

## Fundamentals of Biotechnology

BIOLO 1130 - 4 Credits

Application of living organisms and their products in industry, medicine, agriculture, forensics, and environmental science. This multidisciplinary course introduces fundamental principles of biology and chemistry that are used to develop biotechnology and surveys various fields of biotechnology. Topics include biochemistry, recombinant DNA, bioinformatics, medical biotechnology, and bioremediation. Laboratory includes techniques that are routinely used in biotechnology such as chromatography,

# Botany

## Ethnobotany

**BOTAN 1310 - 4 Credits**

This course is designed to introduce students to the origins of many of the plants and plant products that are an important part of everyday life, and the ways that the development of different cultures has been influenced by plants throughout history. Topics covered include basic plant morphology, plant reproduction, origins of major agricultural crops, economically important plant products, and medicinal and poisonous plants. Designed for non-science majors and interested students. (3 lecture hours, 2 lab hours)

## Prairie Ecology

**BOTAN 1320 - 4 Credits**

The organisms, environments and ecological processes of the tallgrass prairie ecosystem are examined through lecture, discussion and field studies. Identification of prairie plants, with an emphasis on species in northern Illinois, is included. Students participate in College of DuPage's prairie reconstructions. Field trips and activities are required. Biology 1100 or Biology 1151 is recommended (2 lecture hours, 4 lab hours)

## Special Project

**BOTAN 1800 - 1-3 Credits**

Special project courses in botany cover topics not otherwise covered by general education courses and other courses in the catalog for the botany discipline. These courses require direct experience and focused reflection in an in-depth study of a specific botany topic and/or the critical analysis of contemporary issues in botany. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30% but not to exceed 70%. This experiential component may include field studies, interdisciplinary learning, and/or the practical application of botany concepts, theories, principles, and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.). This course can be taken four times for credit as long as a different topic is chosen.

## Selected Topics I

**BOTAN 1820 - 3 Credits**

Introductory exploration and analysis of selected topics in botany with a specific theme indicated by course title listed in college Class Schedule. This course may be taken four times for credit as long as different topics are selected. (3 lecture hours)

## Selected Topics II

**BOTAN 1821 - 1-3 Credits**

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college Class Schedule. This course may be taken four times for credit as long as different topics are selected. (2 lecture hours, 2 lab hours)

## Independent Study

**BOTAN 1840 - 1-4 Credits**

Exploration and analysis of topics within botany to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. This course may be taken four times for credit as long as different topics are selected.

# Business

## Introduction to Business

**BUSIN 1100 - 3 Credits**

Introduction to the environment and functions of business. Organization and operation of business, the relationships of business to society, and the dominant field and types of business are surveyed. Functions studied include marketing, finance, production, management, retailing, wholesaling, advertising, risk, pricing, personnel and business environment. (3 lecture hours)

## Customer Service

**BUSIN 1111 - 3 Credits**

Interacting with customers and responding to customer concerns in-person, on the telephone and electronically. Customer service throughout the organization and as a system for meeting customer expectations. Verbal and nonverbal communications as they relate to customer service. Methods for responding to different types of customers. (3 lecture hours)

## Fundamentals of Personal Investing

**BUSIN 1120 - 3 Credits**

Explores various investment vehicles utilized by the

personal investor including stocks, bonds, real estate, mutual funds and insurance. Investment vehicle descriptions, values and economic complications are surveyed. Application of investment theory and risk analysis associated with investment decisions as it relates to building a hypothetical personal investment portfolio. (3 lecture hours)

## Entrepreneurship

**BUSIN 1161 - 3 Credits**

Exploration of the start-up of small businesses and franchises. Essential business ownership primarily focusing on the marketing and management aspects of entrepreneurship. Product ideas, product development, patents, copyright, and trademarks. Introduction to start-up financing and business planning. (3 lecture hours)

## Electronic Business/Commerce

**BUSIN 1170 - 3 Credits**

Overview of resources, knowledge, skills, practices and techniques necessary to conduct business online. Explores nature and impact of

e-commerce on business and business operation, resources required versus available resources, e-management, Customer Relationship Management (CRM), ordering systems, end-to-end marketing, and performance and control systems. (3 lecture hours)

## Special Project

**BUSIN 1800 - 1-4 Credits**

Special project courses in business topics not otherwise covered by general education courses and other courses in the catalog for the business discipline. These courses require direct experience and focused reflection in an in-depth study of a specific Business topic and/or the critical analysis of contemporary issues in business. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30% but not to exceed 70%. This experiential component may include field studies, interdisciplinary learning, and/or the practical application of business concepts, theories, principles, and methods with a specific focus. All courses require an



## Business Law

### Independent Study

BUSLW 1840 - 1-4 Credits

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. This course may be taken four times for credit as long as different topics are selected. Prerequisite: Consent of instructor is required (1 to 4 lecture hours)

### Legal Environment of Business

BUSLW 2205 - 3 Credits

Traces the history and development of the judicial system and the social and legal environment of business. Principles of business legal ethics and corporate social responsibilities, government regulation of business, securities law, consumer protection law labor law, employment law and environmental law are discussed and analyzed through use of cases and problems. Emphasis will be placed upon the legal dimension of ethical issues in the world of business. (3 lecture hours)

### Business Law I

BUSLW 2211 - 3 Credits

Introduction to our Anglo-American system of law, tracing its sources and history. Introduction to the legal system as it affects business activity. Principles of the law of contracts, agency relationships, commercial paper and sales are discussed and analyzed through the use of the Uniform Commercial Code, cases and problems. Emphasis is upon the law and business relationships. (3 lecture hours)

### Business Law II

BUSLW 2212 - 3 Credits

Principles of the law of agency, partnerships, corporations, wills, trusts, accounting law and liability bankruptcy, and real property are discussed and analyzed through the use of the Model Corporation Act, the Illinois Business Corporation Act, cases and problems. Emphasis is placed on the Uniform Commercial Code, including negotiable instruments, holder in due course, credit and secured transactions. Prerequisite: Business Law 2211 (3 lecture hours)

### Internship (Career & Technical Ed)yCoop Ed/ Internship Occup

BUSLW 2860 - 1-4 Credits

Course requires participation in Career and Technical Education work experience with onsite supervision. Internship learning objectives are developed by student and faculty member, with approval of employer, to provide appropriate work-based learning experiences. Credit is earned by working a minimum of 75 clock hours per semester credit hour, up to a maximum of four credits. Prerequisite: 2.0 cumulative grade point average; 12 semester credits earned in a related field of study; students work with Career Services staff to obtain approval of the internship by the Associate Dean from the academic discipline where the student is planning to earn credit.

### Internship Advanced (Career & Tech Ed)

BUSLW 2865 - 1-4 Credits

Continuation of Internship (Career and Technical Education). Course requires participation in Career & Technical Education work experience with onsite

# Chemistry

## Basic Laboratory and Computation Chemist

CHEMI 0485 - 3 Credits

A study of the metric system, dimensional analysis, density, physical and chemical properties of matter, formulae, gas laws, stoichiometry, and acids and bases.

Examination of the rules for presentation of graphical and calculated formats of laboratory measurements. (2 lecture hours, 2 lab hours)

## Contemporary Chemistry

CHEMI 1105 - 4 Credits

Introduction to chemical concepts using practical issues and applications to illustrate the principles of chemistry. The language of chemistry, scientific method and measurement, experimentation with data collection, and current issues with application to chemical principles. One year of high school algebra is recommended. This course is not a prerequisite for Chemistry 1212. (3 lecture hours, 3 lab hours)

## Concepts and Applications in Nanoscience

CHEMI 1137 - 4 Credits

Inter-disciplinary course combining elements of chemistry, physics and electronics, takes a non-mathematical approach to examine the fundamental scientific principles behind the new field of nanotechnology. The course is intended for non-science majors. The important future role of nanotechnology in society is discussed, using applications in the consumer world and industry involving materials and electronics. The course provides experience from theoretical, laboratory and laboratory simulation perspectives. (3 lecture hours, 3 lab hours)

## Intro to Forensic Science & Chemistry

CHEMI 1205 - 4 Credits

Basic principles and uses of forensic science in the United States system of justice. Addresses the application of science to the processes of law, and involves the collection, examination, evaluation and interpretation of evidence. Applies chemical concepts to evidence and law. (3 lecture hours, 3 lab hours)

## Survey of General Chemistry

CHEMI 1211 - 5 Credits

Fundamental concepts of general inorganic chemistry including formula naming, atomic structure, stoichiometry, gas laws, solutions, equilibria, redox, acid-base theory and nuclear chemistry. Intended for health science majors.

Not intended for science or engineering majors. Prerequisite: Mathematics 0481 (or college equivalent) with a grade of C or better, or a qualifying score on the mathematics placement test or a qualifying A.C.T. math score (4 lecture hours, 3 lab hours)

## Survey of Organic Chemistry

CHEMI 1212 - 5 Credits

Introduction to organic chemistry. Nomenclature, structure, physical properties, reactions and synthesis of major organic functional groups. Intended for health science majors. Prerequisite: Chemistry 1211 or Chemistry 1551 (4 lecture hours, 3 lab hours)

## Scientific Concepts - Sustainable Energy

CHEMI 1237 - 4 Credits

Non-mathematical approach in examining a range of sustainable energy sources including wind, solar, ethanol, biodiesel, gasification,

geothermal, hydrogen and fuel cells. Fundamental laws governing energy conversion in sustainable energy are introduced. Economic and environmental issues and the role of climate change in sustainable energy will be reviewed. Intended for

students interested in a career in the renewable energy industry and non-science majors. Provides experience from theoretical, laboratory and laboratory simulation perspectives. (3 lecture hours, 3 lab hours)

## Chinese

### Civilization and Culture of China

CHINE 1100 - 3 Credits

This course is a brief introduction to the culture, history, political institutions, social, philosophical and economic development of China from ancient times to the present. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours)

speaking, and reading and writing complex sentences. For students who have successfully completed Chinese 1101 or equivalent or three years of high school Chinese. (4 lecture hours)

on further accuracy and comprehension in listening, reading, speaking, and writing. More Chinese characters are introduced. For students who have successfully completed Chinese 1102 or equivalent or four years of high school Chinese. (4 lecture hours)

### Elementary Chinese I

CHINE 1101 - 4 Credits

Introduction to standard, modern Mandarin Chinese: pronunciation, idiomatic expressions, speech patterns and characters for the beginning students. (4 lecture hours)

### Independent Study

CHINE 1840 - 1-4 Credits

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. This course may be taken four times for credit as long as different topics are selected. Prerequisite: Consent of instructor is required (1 to 4 lecture hours)

### Intermediate Chinese II

CHINE 2202 - 4 Credits

Continuation of Chinese 2201. More Chinese characters are introduced. For students who have successfully completed Chinese 2201 or equivalent or five years of high school Chinese. (4 lecture hours)

### Elementary Chinese II

CHINE 1102 - 4 Credits

A continuation of CHINE-1101 with emphasis on listening,

### Intermediate Chinese I

CHINE 2201 - 4 Credits

This course is a continuation of CHINE-1102 with emphasis

### Internship (Career & Technical Ed)/Coop Ed/ Internship Occup

CHINE 2860 - 1-4 Credits

Course requires participation in Career and Technical Education work experience with onsite supervision. Internship learning objectives

# Computer & Internetworking Technologies

## PC Maintenance & Upgrading

CIT 1100 - 2 Credits

Introduction to maintaining and upgrading personal computers (PCs). System component identification, configuration, assembly and disassembly, upgrading procedures, basic troubleshooting techniques, and preventative maintenance are included. Prepares students for the CompTIA Strata certification. (1 lecture hour, 2 lab hours)

## Computer and Hardware Maintenance

CIT 1111 - 3 Credits

Covers aspects of hardware support relating to personal computers (PCs) including system troubleshooting, system board, drive subsystems, memory, input/output devices, and multimedia. Prepares the student for the CompTIA A+ exam. Prerequisite: Computer and Internetworking Technologies 1100 with a grade of C or better or equivalent or consent of instructor (2 lecture hours, 2 lab hours)

## Advanced System Maintenance

CIT 1112 - 3 Credits

Maintaining and servicing modern personal computer systems, with emphasis on advanced hardware, operating systems, troubleshooting, networks, printers, and other peripheral devices. Prepares the student for the CompTIA A+ exam. Prerequisite: Computer and Internetworking Technologies 1100 with a grade of C or better or equivalent or consent of instructor (2 lecture hours, 2 lab hours)

## Advanced Computer Maintenance Tools

CIT 1113 - 2 Credits

Covers advanced system maintenance with emphasis on maintaining and repairing laptop computers, data recovery, system restoral, virus detection and removal. Students will use the latest freeware tools with emphasis on using Knoppix as a troubleshooting tool. Prerequisite: Computer and Internetworking Technologies 1111 with a grade of C or better, or equivalent and Computer and Internetworking Technologies 1112 with a grade of C or better, or

equivalent or CompTIA A+ Certification or consent of instructor. (1 lecture hours, 2 lab hours)

## Apple MacOS Maintenance/ Troubleshooting

CIT 1114 - 3 Credits

Introduction to configuring and maintaining the Apple Macintosh Operating System (MAC O/S). Troubleshooting, configuration and upgrading of Apple MAC operating systems will be covered. Prerequisite: Computer and Internetworking Technologies 1100 with a grade of C or better or equivalent, Computer and Internetworking Technologies 1111 and Computer and Internetworking Technologies 1112 with a grade of C or better or equivalent or consent of instructor (2 lecture hours, 2 lab hours)

## Binary Numbers & Subnetting

CIT 1120 - 2 Credits

Introduction to numbering systems used in computers and networking systems. Binary, Hexadecimal numbering systems as well as subnetting, Variable Length Subnet Masks (VLSM), Classless Inter-

# Computer Information Systems

## Learning Computer Basics

CIS 0800 - 3 Credits

Prepares students for computer related courses that do not require a prerequisite and develops computer skills for personal or professional growth. Theory and practice are integrated through a combination of instructor-led lessons and mandatory, guided, self-paced practice exercises. Topics include hardware, word processing, math utilized in spreadsheets, presentation software, basic Internet use and e-mail. (3 lecture hours)

## Using Computers: An Introduction

CIS 1110 - 2 Credits

Prepares students for the use of the computer as a productivity tool. Fundamentals of how a computer works by understanding hardware and the distinctions between system software and application software. Hands-on projects will use microcomputer applications to teach concepts related to word processing, spreadsheets, databases and presentation graphics. Topics include creation and maintenance of folders and files, networks, and

information access using the Internet. (2 lecture hours, 1 lab hour)

## The Internet

CIS 1120 - 2 Credits

Introduces the fundamental skills and knowledge needed to master and use the Internet. Provides an understanding of the concepts behind the Internet as a tool as well as hands-on activities using the Internet. Intended for a broad audience. (2 lecture hours)

## Windows Basics

CIS 1130 - 2 Credits

Introduction to the Windows operating system and its Graphical User Interface (GUI). Prerequisite: Basic computer mouse skills (2 lecture hours)

## Web Technologies & Cloud Computing

CIS 1140 - 3 Credits

Introduces the use of dynamic Web applications that provide the ability to collaborate and share information online, creating a connective intelligence with data, concepts, applications, and ultimately people. Focuses on user perspective of social and professional networking,

current Web technologies, and Cloud Computing applications. Benefits, risks, and areas of legal and ethical concerns are discussed. Prerequisite: Computer Information Systems 1110 or Computer Information Systems 1120 or Computer Information 1150 or equivalent or consent of instructor (3 lecture hours)

## Intro to Computer Information Systems

CIS 1150 - 3 Credits

An overview of the computing field and its typical applications. Covers key terminology and components of computer hardware, software and operating systems. Other topics include systems development methods, management information systems, programming languages, communications, networks, application software, the Internet and career opportunities. Microcomputer applications include word processing, spreadsheet, database and presentation software. (3 lecture hours, 1 lab hour)



## Windows Command Line

CIS 1160 - 2 Credits

Introduction to microcomputer operating systems. Provides an opportunity to work with the

Microsoft Windows operating system command line. Includes the major components of an operating system, command syntax, disk format and management, internal/external

commands, file manipulation, directory structure, files and disk maintenance, configuration and batch files, and network connectivity. (2 lecture hours)

## Cosmetology

### Introduction to Cosmetology

COSME 1101 - 3 Credits

Introduction to required safety and decontamination procedures in a salon. Business etiquette in the cosmetology field is introduced. Prepares student for state certification for the Illinois Cosmetology License from the Department of Professional and Financial Regulations. Prerequisite: Admission to the Cosmetology program is required. Concurrent Enrollment is required in Cosmetology 1103, Cosmetology 1105 and Cosmetology 1107 or consent of instructor. Reading Placement Category Two is required. (2 lecture hour, 2 lab hours)

### Chemical Services I

COSME 1103 - 3 Credits

Introduction to basic cosmetic chemical services including shampoo, scalp treatment, chemical texture, and hair color. Prepares student for state certification for the

Cosmetology License from the Department of Professional and Financial Regulations. Prerequisite: Admission into Cosmetology program is required. Concurrent Enrollment is required in Cosmetology 1101, Cosmetology 1105 and Cosmetology 1107 or consent of instructor. (2 lecture hours, 2 lab hours)

### Hair Styling I

COSME 1105 - 3 Credits

Introduction to hairstyling and design techniques. Includes basic finger waving, braiding, extensions and hair roller placement. Prepares student for state certification for the Illinois Cosmetology License from the Department of Professional and Financial Regulations. Prerequisite: Admission to the Cosmetology program is required. Concurrent Enrollment is required in Cosmetology 1101, Cosmetology 1103 and Cosmetology 1107 or consent of instructor. (1 lecture hour, 4 lab hours)

### Thermal Styling I

COSME 1107 - 3 Credits

Introduction to thermal hair styling using the various thermal implements and techniques. Prepares student for state certification for the Cosmetology License from the Department of Professional and Financial Regulations. Prerequisite: Admission to the Cosmetology program is required. Concurrent Enrollment is required in Cosmetology 1101, Cosmetology 1103 and Cosmetology 1105 or consent of instructor. (1 lecture hour, 4 lab hours)

### Hair Styling II

COSME 1111 - 3 Credits

Introduction to haircutting techniques includes use of shears and razors. Basic principles of hair roller placement, set, and comb out are also covered. Prepares student for state certification for the Cosmetology License from the Department of Professional and Financial Regulations. Prerequisite: Cosmetology

## Criminal Justice

### Introduction to Criminal Justice

CRIMJ 1100 - 3 Credits

An overview of the criminal justice system, its history and philosophy. This includes an analysis of the major components of criminal justice and their inter-relationship in the administration of justice. (3 lecture hours)

### Police Operations and Procedures

CRIMJ 1110 - 3 Credits

Survey of police patrol functions with emphasis on responsibilities of the uniformed officer, personnel distribution theories, community and problem-oriented policing strategies, police ethics and accountability, and the relationship between the officer and the community. (3 lecture hours)

### Crime Prevention

CRIMJ 1112 - 3 Credits

An overview of crime prevention strategies from an individual and community perspective, including a discussion and analysis of neighborhood watch programs, home security strategies and

personal security tactics. School based and age-specific community crime prevention programs and the application of technology to crime prevention problems are discussed. (3 lecture hours)

### Traffic Law and Investigation

CRIMJ 1120 - 3 Credits

Vehicle traffic law, regulation and enforcement, fundamentals of accident causation, prevention and investigation. (3 lecture hours)

### Introduction to Corrections

CRIMJ 1130 - 3 Credits

An overview of the goals, structure and operations of correctional institutions; sentencing trends and alternatives to incarceration; probation and parole; inmate life, prisonization and institutionalization; jail administration and community correctional programs. (3 lecture hours)

### Gangs and the Criminal Justice System

CRIMJ 1135 - 3 Credits

An overview of the nature of gang membership and

structure; theories of gang involvement; legal strategies in gang prevention and intervention, with emphasis on gangs in suburban communities; legislative strategies and community gang prevention partnerships. (3 lecture hours)

### Principles of Security Administration

CRIMJ 1140 - 3 Credits

An overview of security systems found in industrial, commercial, retail and governmental agencies; legal framework for security programs; internal business crime and its detection, apprehension and prevention. (3 lecture hours)

### Contemporary Issues in Private Security

CRIMJ 1141 - 3 Credits

Theories, principles, and practices of private sector security and loss prevention in a post-9/11 world. Hazard and risk assessment methodology is addressed along with strategies for dealing with both internal and external threats. Industry best practices are incorporated throughout the course, while viewing the discipline of private security

## Culinary Arts

### Quantity Food Preparation I

CULIN 1101 - 4 Credits

Introduction to basic cooking methods, the identification and use of ingredients and handling of tools and equipment, also skills and techniques used in cookery. Activities include preparation of basic recipes, cold food items, stocks and soups, and the fundamentals of service. Vegetable and a variety of meat products will be included. Prerequisite: Culinary Arts 1120 or concurrent enrollment or equivalent or consent of instructor (8 lab hours)

### Quantity Food Preparation II

CULIN 1102 - 4 Credits

Continuation of the fundamental concepts and techniques of food preparation. Students rotate through stations in a large commercial kitchen and dining room. Cooking skills are developed through participation in food preparation, production and dining room operations. Basic service skill, concepts, and techniques. Prerequisite: Culinary Arts 1101 or equivalent or consent of instructor (8 lab hours)

### Cake Decorating and Confectionery

CULIN 1104 - 2 Credits

Techniques utilized in the decoration of cakes, pastries and confectionery items produced in retail and hotel pastry shops. Emphasis on the development of skill in the production of quality borders, flowers, lettering and figures. Activities also include sugar molding, image transfers, color and airbrush technique. (4 lab hours)

### Advanced Decorative Techniques

CULIN 1107 - 2 Credits

Techniques utilized in the production of advanced patisserie. Candy chocolate work, pastillage, and pulled sugar will be emphasized. Modeling and sculpting of chocolate centerpieces. Prerequisite: Culinary Arts 1172 or equivalent or consent of instructor. (4 lab hours)

### Culinary Measurements & Conversions

CULIN 1108 - 2 Credits

Recipe costing and conversions for culinary applications. Yield tests and

product assessments will also be covered. (2 lecture hours)

### Nutrition for Food Service Professional

CULIN 1109 - 2 Credits

Introduction of basic nutrition concepts and application of these concepts in menu planning. Emphasis is placed on the role of the food service professional in providing nutritious foods that meet the needs of today's diverse customer groups. (2 lecture hours)

### Basic Nutrition

CULIN 1110 - 3 Credits

Emphasis is placed on normal and clinical nutrition, including many aspects of diet therapy. Presents current information on the relationship of nutrition to health. Prerequisite: Anatomy and Physiology 1500, Anatomy and Physiology 1551, Anatomy and Physiology 1552, Anatomy and Physiology 1571 or Anatomy and Physiology 1572 or consent of instructor (3 lecture hours)

### Foodservice Sanitation License

CULIN 1115 - 1 Credits



## Dance

### Dance Appreciation

DANCE 1100 - 3 Credits

Overview of various aspects of dance both as a concert theatre art form and as an entertainment. Emphasis placed on history, dancers, choreographers, trends, and major works of dance in the tradition of western civilization. Credit cannot be given for both Dance 1100 and Physical Education 1643 (3 lecture hours)

### Ballet I

DANCE 1101 - 1 Credits

Beginning ballet skills. Introduction to the movements and dance skills of classical and contemporary ballet, including basic positions, barre work, center floor work and simple dances. Credit cannot be given for both Dance 1101 and Physical Education 1611 (2 lab hours)

### Ballet II

DANCE 1102 - 1 Credits

A continuation of Ballet I. Further work on the movements and dance skills of classical and contemporary ballet with emphasis on intermediate and advanced skills. Credit cannot be given

for both Dance 1102 and Physical Education 1612. Prerequisite: Dance 1101 or Physical Education 1611 with a grade of D or better or equivalent skill level or consent of instructor (2 lab hours)

### Modern Dance I

DANCE 1104 - 1 Credits

Introduction to body awareness, and movement in space. Technique, placement, and creative experiences are included in this course. Concepts of dance composition are studied through improvisation, vocabulary, and special awareness. Credit cannot be given for both Dance 1104 and Physical Education 1624. (2 lab hours)

### Modern Dance II

DANCE 1105 - 1 Credits

A continuation of Modern Dance I. Further work on body awareness, and movement in space. Technique, placement, and creative experiences are included in this course. Concepts of dance composition are studied through improvisation, vocabulary, and spatial awareness. Credit cannot be given for both Dance 1105

and Physical Education 1625. Prerequisite: Dance 1104 or Physical Education 1624 with a grade of C or better, or equivalent or consent of instructor (2 lab hours)

### Jazz I

DANCE 1107 - 1 Credits

An introduction to the movements and dance skills characteristic of jazz dance. This course provides an opportunity to condition the body in the areas of muscle and cardiovascular endurance, coordination, rhythm and balance. Class consists of isolated body movements, technique work, basic steps, step combinations, and traveling movements across the floor. Credit cannot be given for both Dance 1107 and Physical Education 1621. (2 lab hours)

### Jazz II

DANCE 1108 - 1 Credits

A continuation of the movements and dance skills of Modern Jazz I. This course gradually adds advanced dance movements and step combinations. Increased opportunity for creative exploration and performance of jazz dance. Credit cannot

# Dental Hygiene

## Principles in Dental Hygiene I

DEHYG 1101 - 3 Credits

Principles of disease transmission. Infection control policies, patient procedures, patient assessment and fundamental instrumentation for the dental hygienist. Foundation of knowledge and strategies of preventive dental hygiene practice. Emphasis on mechanical and chemical plaque control, use of fluoride and health promotion. Prerequisite: Admission into the Dental Hygiene program or consent of instructor (3 lecture hours)

## Principles in Dental Hygiene II

DEHYG 1102 - 2 Credits

Rationale for collection of assessment data and associated clinical procedures. Data collection. Use of instruments, dental sealants, topical fluorides, development of dental hygiene treatment plans. Introduction to direct patient care. Prerequisite: Admission to the Dental Hygiene program is required. Dental Hygiene 1101 with a grade of C or better or consent of instructor (2 lecture hours)

## Dental Materials/Expanded Functions

DEHYG 1105 - 3 Credits

Physical and chemical properties of dental materials, characteristics and manipulation of impression materials, gypsum products, investments, waxes, cements, resins, metallic and non-metallic restorative agents. Prerequisite: Admission to the Dental Hygiene program is required. Dental Hygiene 1101, Dental Hygiene 1115, Dental Hygiene 1120, Dental Hygiene 1125 and Dental Hygiene 1135; all with a grade of C or better or consent of instructor (2 lecture hours, 3 lab hours)

## Dental Radiology I

DEHYG 1112 - 2 Credits

Concepts of radiation history, radiation physics, radiation biology, radiation protection, dental X-ray equipment, film, image characteristics and film processing. Introduction to radiographic examination techniques. Prerequisite: Admission to Dental Hygiene program or consent of instructor (1 lecture hour, 3 lab hours)

## Dental Tooth Anatomy and Morphology

DEHYG 1115 - 2 Credits

Emphasis on clinical appearance of oral structures, dental terminology, morphology of the permanent and primary dentition, patterns, and the occlusion and malocclusion within and between the dental arches. Review of dental anomalies and other clinical appearances. Prerequisite: Admission to the Dental Hygiene program or consent of instructor (1 lecture hour, 3 lab hours)

## Preclinical Dental Hygiene I

DEHYG 1120 - 1 Credits

Integration of the scientific and clinical principles underlying the practice of dental hygiene. Clinical procedures and techniques for patient assessment, including: prevention of disease transmission, health history, extra and intraoral examination, gingival evaluation and periodontal examination. Operation of the dental unit and basic instrumentation techniques for the removal of plaque and calculus are presented. Prerequisite: Admission to the Dental

## Early Childhood Education & Care

### Intro to the Early Childhood Profession

ECEC 1100 - 3 Credits

An introduction to the field of early childhood education and care including the history of early childhood education and the various types and components of current early childhood programs. Ways that early childhood programs support the development of children and the professional roles and responsibilities of the early childhood educator will be explored. Prerequisite: Course requires Reading Placement Test-Category One. (2 lecture hours, 2 lab hours)

### Growth & Development of the Young Child

ECEC 1101 - 3 Credits

An overview of all aspects of child growth and development from conception through adolescence. Child development theory, principles of sequential growth with emphasis on the significance of family, peers, school and culture. Prerequisite: Course requires Reading Placement Test Score-Category One. (3 lecture hours)

### Child Guidance Practices

ECEC 1102 - 3 Credits

A study of guidance practices that support the development of the young child including the relationship of developmental theories to guidance practices. Lab experiences provide practice in observation, reflection and interaction with young children. Prerequisite: Early Childhood Education and Care 1100 with a grade of C or better or equivalent and Early Childhood Education and Care 1101 with a grade of C or better or equivalent (2 lecture hours, 2 lab hours)

### Parenting and the Young Child

ECEC 1110 - 2 Credits

A practical analysis of parent-child interaction with emphasis on understanding developmental tasks of the early childhood years. Motivation and guidance as applied to child and parent are explored. (2 lecture hours)

### Care Infant Toddler & Two-Year Child I

ECEC 1116 - 3 Credits

Introduction to theories and research related to the

development of infant, toddler and two-year-old children. Ways of providing a safe, stimulating and nurturing environment that fosters the optimum growth and development of the individual child are examined. Thirty hours laboratory work of group care of children aged six weeks to 36 months are required. (2 lecture hours, 2 lab hours)

### Care Infant, Toddler & Two-Year Child II

ECEC 1117 - 3 Credits

Continuation of the study of development, education and care of infant, toddler and two-year-old children. The teacher's role in providing an environment that fosters the optimum growth and development of the individual child is examined. Thirty hours of laboratory work in group care of children aged six weeks to 36 months are required. Prerequisite: Early Childhood Education and Care 1101 or Early Childhood Education and Care 1116 (2 lecture hours, 2 lab hours)

### Family Child Care Management

ECEC 1120 - 2 Credits

## Earth Science

### Physical Geology of Earth's Interior

EARTH 1101 - 4 Credits

Processes important in understanding Earth's interior. Planetary segregation, heat flow, Earth's magnetic field, earthquakes, continental drift, paleomagnetism, seafloor spreading, mantle plumes, and crustal deformation are investigated in light of the unifying theory of plate tectonics. Physical and chemical properties of minerals and the genesis of igneous, sedimentary and metamorphic rocks, and their relationship to the rock and tectonic cycles. Prerequisite: Mathematics 0481 (or college equivalent) with a grade of C or better or qualifying score on the mathematics placement test or a qualifying A.C.T. math score. Course requires Reading Placement Test Score-Category One (3 lecture hours, 3 lab hours)

### Physical Geology of Earth's Surface

EARTH 1102 - 4 Credits

Geological processes involved in the creation of a variety of landform systems and sedimentary deposits. Weathering, mass wasting, transport,

deposition, depositional environments, sediment lithification, analysis and interpretation of topographic maps, cross-sections, and aerial photographs. Plate tectonic theory, volcanism, and rock and mineral forming processes are integrated. Prerequisite: Mathematics 0481 (or college equivalent) with a grade of C or better or qualifying score on the mathematics placement test or a qualifying A.C.T. math score. Course requires Reading Placement Test Score-Category One (3 lecture hours, 3 lab hours)

### Environmental Geology

EARTH 1105 - 4 Credits

A study of the impact of geological processes on society and the environmental consequences of the use of Earth resources by humans. Includes analyses of geologic hazards (including earthquakes, volcanic eruptions, groundwater contamination, flooding) and the attempts made to evaluate and mitigate their risks to human populations. Special attention will be focused on environmental impacts of land-use and economic resource development. Recommended course: Mathematics 0481.

Successful completion of high school algebra is assumed. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours, 2 lab hours)

### Introduction to Meteorology

EARTH 1110 - 4 Credits

A first look at various aspects of meteorology, including solar radiation, global circulation, environmental issues, winds, stability, precipitation processes, weather systems and severe weather. Basic physical principles, meteorological terminology, societal impacts, and weather analysis will be explored. Prerequisite: Mathematics 0481 (or college equivalent) with a grade of C or better or qualifying score on the mathematics placement test or a qualifying A.C.T. math score. Course requires Reading Placement Test Score-Category One (3 lecture hours, 2 lab hours)

### Climate and Global Change

EARTH 1111 - 3 Credits

Introduction to the earth's climate, climate change and the interactions between climate

## Economics

### Consumer Economics and Personal Finance

ECONO 1110 - 3 Credits

An overview of personal and family financial planning. Emphasis is placed on financial recordkeeping, consumer spending, tax planning, making buying decisions, purchasing insurance, selecting investments, and retirement and estate planning. (3 lecture hours)

### Special Project

ECONO 1800 - 1-3 Credits

Special project courses cover topics not otherwise covered by general education courses and other courses in the Catalog for the discipline. These courses require direct experience and focused reflection in an in-depth study of a specific discipline topic and/or the critical analysis of contemporary issues in the discipline. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates and experiential component of no less than 30 percent but not to exceed 70 percent (to be determined by the disciplines). This experiential

component may include field studies, interdisciplinary learning, and/or the practical application of discipline-related concepts, theories, principles and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.)

### Independent Study

ECONO 1840 - 1-4 Credits

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. This course may be taken four times for credit as long as different topics are selected. Prerequisite: Consent of instructor is required (1 to 4 lecture hours)

### Principles of Economics

ECONO 2200 - 3 Credits

A survey course addressing macroeconomics and microeconomics. A study of product and resource markets, market structures, interactions between government and

firms, the determinants of economic activity, money and banking, monetary and fiscal policy implications, international trade, and international finance. This course is not recommended for Economics majors or those pursuing a baccalaureate degree in any field of business. Not for credit if credit earned in Economics 2201 or Economics 2202 or their equivalent. (3 lecture hours)

### Macroeconomics and the Global Economy

ECONO 2201 - 3 Credits

A study of the major factors that determine levels of economic activity. Emphasis is placed on resource allocation, national production, demand and supply, income levels, government, money and the banking system, policy implications, economic growth, international finance and exchange rates. A score of 53 or higher in algebra domain of Math Placement Test is recommended. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours)



## Microeconomics and the Global Economy

ECONO 2202 - 3 Credits

A study of consumer behavior, supply and demand, price determination, market structures, factor pricing,

international trade and finance, and economic development. Special topics may include agricultural economics, the economics of risk, environmental economics and alternative economic systems. A score of 53 or higher in

algebra domain of Math Placement Test and successful completion of Economics 2201 are recommended. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours)

## Education

### Introduction to Education

EDUCA 1100 - 3 Credits

Provides an introduction to teaching as a profession in the American education system, offering a variety of perspectives on education including historical, philosophical, social, legal, and ethical issues in a diverse society. Includes organizational structure and school governance. A 15 hour field experience is required. (3 lecture hours)

1100 is strongly recommended. (2 lecture hours, 2 lab hours)

### School Procedures II

EDUCA 1102 - 3 Credits

An introduction to the classroom focusing on diversity in learning styles, assessment and evaluation. Student will spend a minimum of 30 clock hours in a field experience setting. Education 1101 is recommended (2 lecture hours, 2 lab hours)

### Interpersonal Skills for Life and Work

EDUCA 1110 - 2 Credits

Emphasizes understanding the student's style of communicating, exploring options and decreasing self-defeating behaviors. Includes awareness of communication variances among ethnic, racial and gender groups. Through an experiential approach, students have an opportunity to develop more satisfying and effective interpersonal skills for enhancing personal and work relationships, self-esteem, and understanding of behavior differences among persons from diverse backgrounds. (2 lecture hours)

### School Procedures I

EDUCA 1101 - 3 Credits

Students examine various policies, procedures, and routine activities that are part of the teacher's role. This is a field experience course with each student spending a minimum of forty clock hours in a classroom. Weekly seminars focus on the development of human relations and problem solving skills necessary for an effective classroom. Education

### Career Development

EDUCA 1105 - 2 Credits

Focus on integrating career development into important life choices. Emphasis will be given to helping students learn the skills involved in developing career awareness, making career decisions and taking career action in a changing work environment. (2 lecture hours)

### College Success Skills

EDUCA 1115 - 2 Credits

An introduction to academic success skills necessary for meeting the challenge of a college education. Students explore and apply note-taking strategies, listening skills, test preparation, test-anxiety

# Electro-Mechanical Technology

## Survey of Automation

ELMEC 1101 - 3 Credits

Automation technology, including robotics, programmable controllers (PLC), process control instrumentation, industrial electricity, plastics, motion controls, vision systems, and automatic guided vehicles. (2 lecture hours, 2 lab hours)

## Motor & Generator Fundamentals

ELMEC 1110 - 3 Credits

Basic principles for Alternating Current (AC) and Direct Current (DC) motors and generators. Motor and generator theory, operation, ratings, speeds, and enclosures. Analysis of efficiency, power service factors, and frame sizes. Motor control concepts, including ladder and wiring drawings. Control devices, including sensors, control transformers, and starters. (2 lecture hours, 2 lab hours)

## Residential Wiring

ELMEC 1120 - 3 Credits

All facets of correct wiring methods and techniques, based on the National Electrical Code (NEC). Room

by room, circuit by circuit, installation and inspection with an emphasis on symbols, branch circuits, service drops, ground-fault circuit-interrupters (GFCI), low voltage circuits, and security system circuitry. (2 lecture hours, 2 lab hours)

## Industrial Electricity

ELMEC 1130 - 3 Credits

Industrial electricity, circuits, devices, and power. The use of instruments on circuit analysis and test equipment. (2 lecture hour, 2 lab hours)

## Commercial and Industrial Wiring

ELMEC 1140 - 3 Credits

Designed to provide the electrician with tips and techniques for wiring in commercial buildings, offices, stores, manufacturing and other industrial environments. High voltage branch feeders, motors, appliance service, special systems and overcurrent protection are covered. Emphasis is on the National Electrical Code (NEC), minimum requirements pertaining to high and medium voltage motors, wiring, switchgear and power distribution. (2 lecture hours, 2 lab hours)

## Hydraulics and Pneumatics

ELMEC 1141 - 3 Credits

Principles of fluids at rest and in motion. Hydraulic and pneumatic pumps, motors, cylinders, boosters, valves, regulators, and circuitry to transmit and control power. (3 lecture hours)

## National Electrical Code

ELMEC 1150 - 3 Credits

An overview of the current national electrical code (NEC) with emphasis on reading, interpretation and revisions. Definitions and terminology are covered. (3 lecture hours)

## Introduction to Robotic Technology

ELMEC 1171 - 3 Credits

Introduction to the basic theory and operation of robots in industrial automation. Basic robot and work-place design, safety procedures, and robotic applications are studied. (2 lecture hours, 2 lab hours)

## Intro to Programmable Logic Controllers

ELMEC 1190 - 3 Credits

A survey of programmable logic controllers (PLC).

# Electronics Technology

## Electricity and Electronics Fundamentals

ELECT 1100 - 3 Credits

Basic concepts in electronics are studied. An overview of direct and alternating current, circuit laws, components, troubleshooting, and use of test equipment. Hands-on experience, projects, and practical applications are included. (2 lecture hours, 2 lab hours)

## Circuits I

ELECT 1101 - 3 Credits

Introduction to basic concepts in electronics. An exploration of the basics in electricity and electronics. Topics include an overview of direct and alternating current, circuit laws, components, troubleshooting and use of test equipment. Teamwork, critical thinking and problem solving are emphasized. Hands-on experience and practical applications are included. Prerequisite: Electronics Technology 1100 or consent of instructor (2 lecture hours, 2 lab hours)

## Circuits II

ELECT 1102 - 4 Credits

Advanced concepts in circuit electronics. Topics include filtering, resonance, time and frequency response, troubleshooting and use of test equipment. Hands-on experience, practical applications and projects are included. Teamwork, critical thinking and problem solving are emphasized. Prerequisite: Electronics Technology 1101 or consent of instructor (2 lecture hours, 4 lab hours)

## Electricity/Electronics for Mechatronics

ELECT 1105 - 3 Credits

Basic concepts in electricity and electronics are studied. An overview of analog and digital electronics such as circuit laws, components, devices, troubleshooting, and use of test equipment will be examined. (2 lecture hours, 2 lab hours)

## Introduction to Technology

ELECT 1110 - 2 Credits

Students will develop an understanding of the fields of technology such as computers, telecommunications, electronics, mechanics and other related fields. Through project based hands-on learning activities, students will

have an opportunity to apply theory to real problems as they develop skills in solving technological problems. (1 lecture hour, 2 lab hours)

## Introduction to Robotics

ELECT 1111 - 3 Credits

Introduction to fundamental robotic concepts, basic robot characteristics, and review of robotic applications. Hands-on experience, practical applications and projects. Teamwork, critical thinking and problem solving are emphasized. Prerequisite: Electronics Technology 1100 or equivalent, or consent of instructor (2 lecture hours, 2 lab hours)

## Calculus for Electronics

ELECT 1118 - 2 Credits

Basic principles of differential and integral calculus and differential equations applicable to circuit analysis. Prerequisite: Mathematics 1432 (or college equivalent) or qualifying score on the mathematics placement test or qualifying A.C.T. math score and Electronics Technology 1102 or consent of instructor (2 lecture hours)



## Electronic Documentation

ELECT 1120 - 2 Credits

Introduction to electronic drafting and documentation. Electronic schematics and documentation, printed circuit board documentation, and

drafting techniques using computer assisted drafting and design (CADD). Components, symbols, and diagrams. (1 lecture hour, 2 lab hours)

# Engineering

## Engineering Graphics and Design

ENGIN 1101 - 3 Credits

This is an introductory-level course in engineering graphics and design intended for mechanical, civil, and industrial engineering majors. It provides students with skills in basic drafting, spatial visualization, conceptual design, and the latest engineering software. The course's graphics topics include orthographic projection, pictorials, dimensioning, sectioning, tolerances, and assembly drawings utilizing free hand sketching, two-dimensional computer aided design, and solid modeling. The course's design topics include problem definition, functional analysis, generation of design alternatives, and evaluation. Basic shop operations are introduced. Prerequisite: Mathematics 0482 with a grade of C or better, or equivalent or a qualifying score on the mathematics placement test or a qualifying A.C.T. math

score (2 lecture hour, 3 lab hours)

## Selected Topics I

ENGIN 1820 - 1-3 Credits

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college course schedule. This course may be taken four times for credit as long as different topics are selected. Prerequisite: Consent of instructor is required (1 to 3 lecture hours)

## Independent Study

ENGIN 1840 - 1-4 Credits

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. This course may be taken four times for credit as long as different topics are selected. Prerequisite: Consent of instructor is required (1 to 4 lecture hours)

## Statics

ENGIN 2201 - 3 Credits

This course studies the internal forces that develop inside a structure or machine in equilibrium due to applied external forces. The course's topics begin with force vectors, moment vectors, distributed loads, particle equilibrium, and rigid body equilibrium in two and three dimensions. These concepts are applied toward the analysis of trusses, frames, machines, and beams. The course's topics conclude with a study of centroids, moments of inertia, friction, and virtual work. This course is intended for mechanical, civil, and industrial engineering majors. Prerequisite: Mathematics 2231 with a grade of C or better or equivalent and concurrent enrollment in Physics 2111 is required. (3 lecture hours)

## Dynamics

ENGIN 2202 - 3 Credits

This is an advanced course that studies the motion of an object or system under the action of forces. The course's

# English

## Preparation for College Reading

ENGLI 0480 - 4 Credits

Builds the foundational reading skills necessary to prepare for college-level reading. Develops active reading habits that lead to comprehension and that introduce critical reading. Students read a wide variety of texts and show how the texts relate to their own lives as well as enhance their understanding of the world. This course may require use of academic support services. This course may be taken four times for credit. Prerequisite: Appropriate score on the Reading Pre-Course placement test. (4 lecture hours)

## Approaches to College Reading I

ENGLI 0481 - 4 Credits

Continues to develop the reading skills necessary for college-level reading. Emphasizes the role reading plays in acquiring new information and extends literal comprehension to more complex reading tasks required for difficult texts. This course may require use of academic support services. This course may be taken four times for credit. Prerequisite: Appropriate score on the Reading Pre-

Course placement test (4 lecture hours)

## Approaches to College Reading II

ENGLI 0482 - 4 Credits

Focuses primarily on content area reading to prepare students for the challenges of reading in college. Students begin to read critically to determine the purpose, point of view, audience, and message conveyed by an author, to trace the development of the line of reasoning, and to identify and evaluate the rhetorical devices used to convey a point. Also includes vocabulary development and reader-response activities. This course may require use of academic support services. This course may be taken four times for credit. Prerequisite: Appropriate score on the Reading Pre-Course placement test. (4 lecture hours)

## Basic Writing

ENGLI 0490 - 4 Credits

Build confidence and fluency in writing and the ability to generate well-developed texts. Students will understand how their texts fit in with a larger text-based world by developing a sense of

audience and purpose. Classes are workshop-intensive sessions. Because of the strong relationship between writing and reading, students are immersed in reading activities. This course may be taken three times for credit. Prerequisite: Mandatory testing and appropriate score on the Writing Placement Test as determined by the English faculty (4 lecture hours)

## Approaches to College Writing I

ENGLI 0491 - 4 Credits

The first of two developmental writing courses designed to prepare students for ENGLI-1101. Focuses on creating effective sentences and paragraphs within the context of writing short (250 - 350-word) essays, and on developing critical thinking skills. This course may be taken three times for credit. Prerequisite: An appropriate score on the English Placement test (4 lecture hours)

## Approaches to College Writing II

ENGLI 0492 - 4 Credits

The second of two developmental writing courses designed to prepare students

## English as a Second Language

### Academic ESL Reading I

ESL 0441 - 4 Credits

Beginning-level academic/professional reading and comprehension skills and strategies for students whose first or primary language is not English. Emphasizes skills/strategies to improve reading comprehension and speed, expand vocabulary and use reference resources. Course is intended for students who hold a high school certificate or its equivalent and have previously studied English in the United States or their native countries. This course may be taken four times for credit; course does not count toward GPA/graduation and is non-transferable. Prerequisite: Appropriate score on mandatory placement test. Course requires Reading Placement Test Score-Category Four (4 lecture hours)

### Academic ESL Reading II

ESL 0442 - 4 Credits

Intermediate-level academic/professional reading comprehension skills and strategies for students whose first or primary language is not English. Emphasizes developing the critical

reading and academic skills required to satisfy students' academic or professional needs. Course is primarily intended for students who hold a high school certificate or its equivalent and have previously studied English in the United States or their native countries. This course may be taken four times for credit; course does not count toward GPA/graduation and is non-transferable. Prerequisite: English as a Second Language 0441 with a grade of C or better. Course requires Reading Placement Test Score-Category Three (4 lecture hours)

### Academic ESL Reading III

ESL 0443 - 4 Credits

Advanced-level academic/professional reading skills and comprehension strategies for students whose first or primary language is not English. Emphasizes using authentic texts to develop the critical reading and academic skills required to satisfy students' academic or professional needs. Intended for students who hold a high school certificate or its equivalent and have previously studied English in the United States or their native countries.

This course may be taken four times for credit; course does not count toward GPA/graduation and is non-transferable. Prerequisite: English as a Second Language 0442 with a grade of C or better. Course requires Reading Placement Test Score-Category Two (4 lecture hours)

### Academic ESL Writing I

ESL 0551 - 4 Credits

Beginning-level academic/professional writing skills for students whose first or primary language is not English. Emphasizes writing well-formed, grammatical sentences and studying paragraph development. Focuses on recognizing spelling patterns for verbs and nouns, expanding vocabulary, generating original sentences in the six basic sentence patterns with correct punctuation, distinguishing topic sentences from supporting ideas and concluding sentences, and learning pre-writing techniques for paragraph development. Intended for students who hold a high school certificate or its equivalent and have previously studied English in the United States or their native countries. This course

## Fashion Studies

### Flat Pattern Drafting I

FASHI 1101 - 3 Credits

Introduction to flat pattern drafting, including draft of personal basic pattern from body measurements for designing purposes, use of drafting tools, and simple clothing design. Prerequisite: Concurrent enrollment in Fashion Studies 1155 or consent of instructor. Course requires Reading Placement Test Score-Category Two (6 lab hours)

### Flat Pattern Drafting II

FASHI 1102 - 3 Credits

Advanced principles of flat pattern design, including, dress, jacket, and pants. Prerequisite: Concurrent enrollment in Fashion Studies 1156 or consent of instructor. course requires Reading Placement Test Score - Category Two (6 lab hours)

### Design Principles in Apparel

FASHI 1105 - 3 Credits

Basic design principles as applied to apparel. The relationship of form to function, analysis of garment design, interpretation of fashion trends, and expression of

individuality are emphasized.

Prerequisite: Course requires Reading Placement Test Score-Category Two (2 lecture hours, 2 lab hours)

### Machine Knitting I

FASHI 1110 - 1.5 Credits

Principles and techniques of knitting on the single-bed knitting machine. Basic skills are introduced with emphasis on the creative use of color, pattern, texture and fibers in the production of knitted fabrics. Prerequisite: Course requires Reading Placement Test Score-Category Two (3 lab hours)

### Machine Knitting II

FASHI 1112 - 1.5 Credits

Intermediate and advanced techniques on knitting machines. Knit-weave, lace, jacquard, double bed techniques, garment design, and knitting software are introduced. Prerequisite: Fashion Studies 1110 or equivalent or consent of instructor. Course requires Reading Placement Test Score-Category Two (3 lab hours)

### Weaving I

FASHI 1114 - 1.5 Credits

Introduction to the loom as a tool for design and personal expression. Includes selecting yarns, making warps, dressing the loom, designing fabrics, and producing a variety of cloth structures. Prerequisite: Course requires Reading Placement Test Score-Category Two (3 lab hours)

### Weaving II

FASHI 1116 - 1.5 Credits

Development of intermediate and advanced weaving skills on the loom. Twill variations, double weave, lace weave, and overshot are introduced. Prerequisite: Fashion Studies 1114 or equivalent or consent of instructor. Course requires Reading Placement Test Score-Category Two (3 lab hours)

### Fashion Promotion

FASHI 1120 - 3 Credits

Introductory course in preparation, production and merchandising of fashion shows with traditional and creative contemporary approaches. Emphasis on creative use of media in presentation. Prerequisite:

## Fire Science

### Introduction to Fire Science

FIRE 1100 - 3 Credits

Introduction to the field of fire protection. History, chemistry, fire problems, fire protection, equipment, organization and fire service careers are discussed. (3 lecture hours)

### Basic Operations Firefighter- Mod A

FIRE 1101 - 6 Credits

This is a hybrid course that provides partial training toward Basic Operations Firefighter Certification by the Office of the State Fire Marshal. Topics discussed include orientation/organization, fire behavior, building construction, safety, communication, self contained breathing apparatus (SCBA) extinguisher training, ropes and knots, hazardous material operations level, and the national incident management system (NIMS) 100 and 700 Course. Completion qualifies students for the State Fire Marshal Certification Test Module A. Prerequisite: As Per the current Office of the State Fire Marshal Illinois Administrative code 141.300-a. Student must be engaged in firefighting and a member of an organized Illinois fire department or Fire Brigade.

Student must provide National Fire Protection Association (NFPA) compliant protection clothing and self-contained breathing apparatus (SCBA) in accordance with NFPA safety standards. Students must be clean-shaven. (3 lecture hours, 6 lab hours)

### Basic Operations Firefighter-B

FIRE 1102 - 6 Credits

Continuation of Fire 1101. This is a hybrid course that provides partial training toward Basic Operations Firefighter Certification by the Office of the State Fire Marshal. Topics discussed include ladders, hose and appliances, nozzles and fire streams, water supply, forcible entry, ventilation, hazardous material operations level continuation, fire service vehicle operator. Completion qualifies students for the State Fire Marshal Certification Test Module B. Prerequisite: Fire Science 1101 or equivalent and as Per the current Office of the State Fire Marshal Illinois Administrative code 141.300-a. Student must be engaged in firefighting and a member of an organized Illinois fire department or Fire Brigade. Student must provide National

(NFPA) compliant protection clothing and self-contained breathing apparatus (SCBA) in accordance with NFPA safety standards. Students must be clean-shaven. (3 lecture hours, 6 lab hours)

### Basic Operations Firefighter-C

FIRE 1103 - 6 Credits

Continuation of FIRE 1102. This course is a hybrid that provides partial training toward Basic Operations Firefighter Certification by the Office of the State Fire Marshal. Topics discussed include search and rescue, fire control, loss control, protecting evidence, fire detection and alarm systems, prevention and public education, wild land and ground cover firefighting, firefighter survival, technical rescue awareness, completion of hazardous material operations level, and courage to be safe. Course completion qualifies students for the State Fire Marshal Certification Test Module C. Prerequisite: Fire Science 1102 with a grade of C or better or equivalent and as Per the current Office of the State Fire Marshal Illinois Administrative code 141.300-a. Student must be engaged in firefighting and a member



# French

## Civilization and Culture of France

FRENC 1100 - 3 Credits

An introduction in English to the culture, geography, history, economics, political institutions, psychology, literature, music and art of present-day France. A survey of the French-speaking world: Canada, North and West Africa, the Caribbean, the South Pacific, Switzerland and Belgium. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours)

## Elementary French I

FRENC 1101 - 4 Credits

Develops basic understanding of elements of French language knowledge and skill in pronunciation, vocabulary, grammar and elementary reading and writing. Oral presentations in dialogue form including role playing are a key part of the course. (4 lecture hours)

## Elementary French II

FRENC 1102 - 4 Credits

Continues to develop basic understanding of elements of French language: knowledge and skill in pronunciation,

vocabulary, grammar, and elementary reading and writing. Oral presentations in dialogue form including role playing are a key part of the course. For students who have successfully completed French 1101 or equivalent or one year of high school French. (4 lecture hours)

## Independent Study

FRENC 1840 - 1-4 Credits

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. This course may be taken four times for credit as long as different topics are selected. Prerequisite: Consent of instructor is required (1 to 4 lecture hours)

## Intermediate French I

FRENC 2201 - 4 Credits

Continues to develop basic understanding of elements of French language: knowledge and skill in pronunciation, vocabulary, grammar, and elementary reading and writing. Oral presentations in dialogue form including role playing are key part of the course. For

students who have successfully completed French 1102 or equivalent or two years of high school French. (4 lecture hours)

## Intermediate French II

FRENC 2202 - 4 Credits

Continues to develop basic understanding of elements of French language: knowledge and skill in pronunciation, vocabulary, grammar, and elementary reading and writing. Oral presentations in dialogue form including role playing are a key part of the course. For students who have successfully completed French 2201 or equivalent or three years of high school French. (4 lecture hours)

## Conversation and Composition I

FRENC 2251 - 3 Credits

Develops French listening comprehension, speaking fluency and writing ability, and encourages students to increase their total understanding of French and French culture. Classes are conducted completely in French. For students who have successfully completed FRENC-2202 or equivalent

## General Education Development

### General Education Development Review

GED 0800 - 3 Credits

Prepares adult students to take the G.E.D. Literature and the Arts, Writing, Social Studies, Science, Mathematics and the U.S. Constitution tests. Reviews skills, concepts and information needed for the G.E.D. Focuses on developing independent study habits. Step III in the General Education Development reading, writing and mathematical skills course sequence. Mandatory Testing. This course may be taken four times for credit; course does not count toward GPA/graduation and is non-transferable. This course can only be taken on a pass/fail basis. Prerequisite: Consent of instructor (3 lecture hours)

### Spanish General Education Development Re

GED 0801 - 3 Credits

Prepares adult students to take the Spanish General Education Development (GED) Literature and the Arts, Writing, Social Studies, Science Mathematics and the U.S. Constitution tests. Review skills, concepts and information needed for the Spanish GED. Focuses

on developing independent study habits. Course is non-transferable and does not count toward GPA/graduation. This course may be taken four times for credit. This course can only be taken on a pass/fail basis. (3 lecture hours)

### Bridge to Health Care Careers

GED 0802 - 6 Credits

The course prepares adults to pass the GED tests while gaining the skills necessary to train for sustainable employment or post-secondary education in the health care field. Instruction combines reading, writing and math with academic and workplace readiness skills. Students will have the opportunity to explore multiple health care career pathways and learn supporting concepts and terminology. This course was developed by the Illinois Community College Board and has been approved for statewide use. This course does not count toward GPA/graduation and is non-transferable. This course can only be taken on a pass/fail basis. Prerequisite: Consent of instructor is required. (6 lecture hours)

### GED Bridge to CIT

GED 0805 - 6 Credits

This course prepares students to pass the GED tests while gaining the skills necessary to train for sustainable employment or post-secondary education in the information technology field. Instruction combines reading, writing, and math with academic and workplace readiness skills. Students will have the opportunity to explore multiple information and technology career pathways and learn supporting concept and terminology. This course can only be taken on a pass/fail basis. This course does not count toward GPA/graduation and is non-transferable. Prerequisite: Mandatory Testing or completion of ABE 0703 with a grade of S or better, demonstrated equivalent proficiency, or consent of instructor. (6 lecture hours)

### GED Review: US/IL Constitution

GED 0830 - 1 Credits

Prepares adult students to take the General Education Development (GED) U.S./ Illinois Constitution tests. Course is non-transferable and does not count toward GPA/

# Geography

## Western World Geography

GEOGR 1100 - 3 Credits

This regional survey will examine the diverse geographic aspects of countries that are deemed to be part of the Western World: Anglo America, Latin America, Europe, Russia and Australia/New Zealand. The interrelationship between people and their geographic environments (physical, social, economic, political, demographic, cultural, historical environments) will be considered. Coverage of countries and regions in this course will range from specific locational descriptions to consideration of broad regional elements. Students will be expected to learn basic place names, to understand geographic relationships and concepts as found in and among these countries, and to learn to think geographically. (3 lecture hours)

## Eastern World Geography

GEOGR 1105 - 3 Credits

This regional survey will examine the diverse geographic aspects of countries that are deemed to be part of the Eastern

World: Southwest Asia and North Africa, Sub-Saharan Africa, Southeast Asia, East Asia, South Asia, and Central Asia. The interrelationship between people and their geographic environments (physical, social, economic, political, demographic, cultural, historical environments) will be considered. Coverage of countries and regions in this course will range from specific locational descriptions to consideration of broad regional elements. Students will be expected to learn basic place names, to understand geographic relationships and concepts as found in these countries, and to learn to think geographically. (3 lecture hours)

## Introduction to Geography

GEOGR 1107 - 3 Credits

A fundamental overview of the methods geographers use to interpret the world. Includes economic, political, cultural and urban geography, as well as geomorphology and biogeography. Also introduces the various tools geographers use from Geographic Information Systems to maps. (3 lecture hours)

## Geographic Skills: Regional

GEOGR 1108 - 3 Credits

Development of geographic skills such as map reading, air photo interpretation, and navigation. Tools such as Geographic Information Systems and Google Earth are introduced. Chicagoland, Illinois, and the United States form the spatial foci of the class. (3 lecture hours)

## Political Geography

GEOGR 1110 - 3 Credits

An exploration of power and space relations. This course explores how political decisions and processes impact people and their environs, as well as the meaning, history, implications, and combinations of the concepts of nation and state. It will explore the background and nature of borders, country shapes, regional conflicts, and boundary disputes and also compare major political systems and electoral geography. Students will also explore the politics of globalization, trade and trade agreements, and international law. (3 lecture hours)



## Economic Geography

GEOGR 1120 - 3 Credits

An overview of the spatial distribution of economic activities and resultant economic landscapes. This

course includes the study of the Agricultural and Industrial Revolutions, neoliberal and participatory economics, the International Monetary Fund, World Bank, and World

Trade Organization. Structural Adjustment Programs and the impact of free-market economics on traditional economies are examined. (3 lecture hours)

## German

### German Civilization and Culture

GERMA 1100 - 3 Credits

Introduction in English to the culture, history, political institutions, mentality, literature, art and economic development of present-day Germany and other German-speaking countries. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours)

successfully completed German 1101 or equivalent or one year of high school German.(4 lecture hours)

activities. For students who have successfully completed German 1102 or equivalent or two years of high school German. (4 lecture hours)

### Independent Study

GERMA 1840 - 1-4 Credits

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. This course may be taken four times for credit as long as different topics are selected. Prerequisite: Consent of instructor is required (1 to 4 lecture hours)

### Intermediate German II

GERMA 2202 - 4 Credits

Continues to develop students' ability to speak, understand, read and write German in a cultural context. Includes reading and discussion of modern texts, conversation, composition, grammar review and cultural activities. For students who have successfully completed German 2201 or equivalent or three years of high school German. (4 lecture hours)

### Elementary German I

GERMA 1101 - 4 Credits

Develops the ability to speak, understand, read and write German in a cultural context. For the beginning student. (4 lecture hours)

### Intermediate German I

GERMA 2201 - 4 Credits

Develops students' ability to speak, understand, read and write German in a cultural context. Includes reading and discussion of modern texts, conversation, composition, grammar review and cultural

### Conversation and Composition I

GERMA 2251 - 3 Credits

Develops students' listening, speaking, reading and writing skills and expands knowledge of the culture and civilization of German-speaking countries. Classes

### Elementary German II

GERMA 1102 - 4 Credits

Continues the development of the ability to speak, understand, read and write German in a cultural context. For students who have

# Graphic Design

## Drawing for Design

GRDSN 1100 - 3 Credits

Foundation of drawing illustrative matter for commercial applications using various materials and techniques appropriate to the field of graphic design and illustration. Emphasis on visualization and sketching of concepts. (6 lab hours)

## Print Fundamentals for Designers

GRDSN 1101 - 3 Credits

Focuses on the print skills necessary to prepare designs for successful output. Explores industry standard software applications and their functions, along with a wide range of print production skills and techniques essential to designers. (1 lecture, 5 lab hours)

## Graphic Design 1

GRDSN 1102 - 3 Credits

Introduces the basic principles and elements of graphic design, the history of graphic design, form/symbol development, typography, and color theory. Provides practical experience in essential studio processes and procedures, critiques,

and group discussions. (6 lab hours)

## Typography

GRDSN 1104 - 3 Credits

Introduction to typographic history, study of letterforms, terms, classifications, and typeface selection. Exploration of type mechanics and aesthetics, using type in a variety of design applications. Examines structure, layout, and information hierarchy, as well as the relationship of type to image and cultural context. (6 lab hours)

## Graphic Design 2

GRDSN 1105 - 3 Credits

An exploration of graphic design through the integration of typography and imagery from planning, conceptualization, and creation, through management of content for a variety of projects. Major themes include: contrast and fusion of graphic form, text/image collage, hierarchy, grid systems, and extended layouts. Critiques and discussions of professional work including traditional structures of books, catalogs, magazines, and brochures. Emphasizes the use of Adobe InDesign in creating projects. Prerequisite: Graphic

Design 1102 with a grade of C or better, or equivalent or consent of instructor (6 lab hours)

## Three-Dimensional Design

GRDSN 1106 - 3 Credits

Design and construction of three-dimensional forms such as packaging, exhibits, and displays. Students will conceptualize and develop preliminary construction plans, and build mock-ups of three-dimensional communication design projects using a variety of materials and techniques. Prerequisite: Graphic Design 1102 with a grade of C or better, or equivalent or consent of instructor (6 lab hours)

## Digital Illustration 1

GRDSN 1107 - 3 Credits

An introduction to creating digital images for use in graphic design. Use of computers and current software to develop illustrative projects. Focus on originality of imagery and image creation techniques including collage, montage, and mixed media to create professional quality images. Emphasis on the use of Adobe Photoshop and/or other raster-oriented software in creating

# Health Information Technology

## Fundamentals of Health Info Technology

HIT 1101 - 4 Credits

Introduction to the role of health information technicians and the health information field. Covers numbering, filing, indexing and professionals in health care. Health record content in hospitals and other types of health care facilities. Internal and external agency requirements for all types of health care facility records. Prerequisite: Admission to HIT program is required (3 lecture hours, 2 lab hours)

## Classification Systems I

HIT 1102 - 5 Credits

Study of nomenclature and classification of systems including coding and abstracting. Introduction to International Classification of Diseases(ICD) coding principles. Prerequisite: Health Information Technology 1101 and Anatomy & Physiology 1500 with a grade of C or better or Anatomy & Physiology 1551 and Anatomy & Physiology 1552 with a grade of C or better or equivalent or Anatomy & Physiology 1571 and Anatomy & Physiology 1572 with a grade of C or better or consent

of instructor (4 lecture hours, 2 lab hours)

## Computerized Health Data and Statistics

HIT 1103 - 4 Credits

Study of statistical data including hospital census. Electronic information processing and health information systems. Study of the computerized patient record. Computer applications to health data including abstracting, master patient index, and medical transcription. Prerequisite: Health Information Technology 1101 and concurrent enrollment in Computer Information Systems 1150 or consent of instructor (3 lecture hours, 2 lab hours)

## C.P.T. Coding

HIT 1107 - 3 Credits

An introduction to the Current Procedure Terminology (CPT) coding system for procedures in ambulatory care and services rendered by physicians. Emphasis is on the six sections of the CPT book. An introduction of Center for Medicare/Medicaid (CMS) Services' Common Procedure Coding System (HCPCS) is included. Prerequisite: Health

Sciences 1110 or consent of instructor (3 lecture hours)

## ICD-10-CM Coding for Physician Services

HIT 1108 - 3 Credits

An introduction to International Classification of Diseases (ICD) 10 for coding and reimbursement in physician office services. Prerequisite: Health Sciences 1110 with a grade of C or better or equivalent(2 lecture hours, 2 lab hours)

## ICD-9-CM Coding for Physicians Services

HIT 1120 - 3 Credits

An introduction to International Classification of Diseases Ninth Revision, Clinical Modification (ICD-9-CM) for physician office services. Prerequisite: Health Sciences 1110 or consent of instructor (2 lecture hours, 2 lab hours)

## Billing in Physician Offices

HIT 1121 - 3 Credits

An overview of medical office procedures including billing, scheduling, legalities and office protocol. Prerequisite: Health Information Technology 1107 and Health Information

## Health Sciences

### Survey of Health Care Careers

HLTHS 1100 - 2 Credits

An exploration of various allied health professions including diagnostic, medical information, rehabilitation, and patient care services through classroom and field experience. (2 lecture hours)

### Survey Health Care Careers: Field Study

HLTHS 1101 - 2 Credits

An exploration of various allied health professions including diagnostic, medical information, rehabilitation, and patient care services through career shadowing. (2 lecture hours)

### Rehabilitation Aide

HLTHS 1106 - 2 Credits

Overview of the role and necessary skills of a Physical Rehabilitation Aide. Exploration of modalities of physical rehabilitation including effects of aging, neuromuscular/neurological, musculoskeletal disorders and cardiopulmonary disease. Prerequisite: CNA, RN, LPN, Developmental Disabilities Aide, and Child Care Aide (2 lecture hours)

### Biomedical Terminology

HLTHS 1110 - 4 Credits

Introduction of medical terms for each body systems and specialty medical fields. Includes word roots, prefixes and suffixes commonly encountered in the health care field. Previous medical background unnecessary. (4 lecture hours)

### Pharmacy Technician

HLTHS 1115 - 5 Credits

Overview of the role and fundamental skills necessary for a professional pharmacy technician. Exploration of pharmacy abbreviations, calculations, drug classifications, basic anatomy and physiology, disease states, drug interactions, and prescription processing is included. Prerequisite: High School diploma or GED (5 lecture hours)

### Introduction to Clinical Lab Science

HLTHS 1120 - 3 Credits

Introduction to the profession of clinical laboratory science and to the clinical laboratory scientist's role in the delivery of health care. An exploration

of all clinical areas of the laboratory and the major work components performed in each area. Prerequisite: Health Sciences 1110 with a grade of C or better, or consent of instructor (2 lecture hours, 2 lab hours)

### Basic Phlebotomy Techniques

HLTHS 1122 - 4 Credits

An overview of venipuncture and capillary puncture techniques for obtaining blood specimens for laboratory analysis. Prerequisite: Health Sciences 1110 or concurrent enrollment in Health Sciences 1110 (3 lecture hours, 2 lab hours)

### Phlebotomy for Health Professionals

HLTHS 1123 - 2 Credits

An overview of phlebotomy procedures designed for the medical assistant, practicing nurse, and/or health science students who desire to learn phlebotomy techniques. Basic information about phlebotomy as well as hands-on practice is included. This course will not advance towards phlebotomy certification. Prerequisite: Health Science 1110 with a grade of C or better or

# Heating, Ventilation, Air Conditioning, & Refrigeration

## Refrigeration Principles

HVACR 1100 - 3 Credits

Basic laws of matter, fluids, gases, compression systems, refrigeration controls, refrigerants and components. Included are Pressure Enthalpy (PH) charts, evaporators, condensers, metering devices, compressors and an introduction to service refrigeration systems. (2 lecture hours, 2 lab hours)

## Intro to Safety, Materials & Equipment

HVACR 1105 - 3 Credits

The use and care of hand tools, special tools used in air conditioning, pipe fitting, copper tubing, brass fitting, flaring, soldering and safety. Orientation to job entry specification and occupational opportunities. (2 lecture hours, 2 lab hours)

## Refrigerant Certification

HVACR 1108 - 1 Credits

Environmental handling, refrigerant equipment and certification types are covered. Federal Government requires all individuals who open a system or container holding

refrigerant to be certified. EPA refrigerant certification test given. (1 lecture hour)

## Introduction to Controls

HVACR 1110 - 3 Credits

Practical study of electricity, electrical hardware, and electrical test instruments that are used in the heating, air conditioning and refrigeration industry. Basic electricity, circuits, schematics, power distribution, electrical components and motors. (2 lecture hours, 2 lab hours)

## Residential Refrigeration

HVACR 1112 - 3 Credits

Analysis of the operation of refrigeration systems, leak detection, leak repair, charging, component, replacements, schematic reading and troubleshooting domestic refrigerator and window air conditioning units. Prerequisite: Heating, Ventilation, Air Conditioning and Refrigeration 1100, 1105, and 1110 or consent of instructor (2 lecture hours, 2 lab hours)

## Introduction to Sheet Metal

HVACR 1161 - 2 Credits

Basic fitting layouts. Various types of seams, elbows and triangulation used in constructing various square and round fittings. Drawing and fabrication of the fittings are required. (4 lab hours)

## Introduction to Heating

HVACR 1180 - 5 Credits

Gas combustion, venting, operation of a heating unit, electrical circuitry, zoning and accessories. Servicing, troubleshooting and repairing mechanical and electrical components, and proper installation of heating units. Prerequisite: Heating, Ventilation, Air Conditioning and Refrigeration 1110 or consent of instructor (4 lecture hours, 2 lab hours)

## Introduction to Hydronics

HVACR 1186 - 2 Credits

Principles of steam, water, piping and their components are covered with respect to boilers, water treatment and electrical circuitry. Prerequisite:



# History

## Western Civilization Until 1600

HISTO 1110 - 3 Credits

An examination of the development of Western Civilization until 1600. Themes such as the development of governments, religions, philosophy, the arts, and social and economic relationships will be analyzed. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours)

## Western Civilization Since 1600

HISTO 1120 - 3 Credits

An examination of the development of intellectual, social, economic, and political characteristics of modern Western Civilization. Themes such as the Scientific Revolution and the Enlightenment, political revolutions, the rise of industry, the world wars, and the Cold War will be analyzed. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours)

## History of the United States to 1865

HISTO 1130 - 3 Credits

Survey of American history from the Pre-Columbian era through the U.S. Civil War: peoples and origins, colonial development, revolution, establishment of the U.S. Constitution, Early Republic, Age of Reform and Civil War. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours)

## History of the United States Since 1865

HISTO 1140 - 3 Credits

Survey of U.S. history from Reconstruction to the present: Reconstruction, Industrial Revolution, Progressive Era Politics, problems of 20th century include economic, political, cultural, international and social changes in the modern United States including 20th century major wars, Depression era, and the Cold War era. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours)

## World Civilization Since 1300

HISTO 1160 - 3 Credits

The history of the intellectual, political, social, economic and cultural development of world

societies from the fourteenth century to the present. Examines landmark documents and artifacts that reflect world cultures. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours)

## Special Project

HISTO 1800 - 1-4 Credits

Special project courses cover topics not otherwise covered by general education courses and other courses in the Catalog for the discipline. These courses require direct experience and focused reflection in an in-depth study of a specific discipline topic and/or the critical analysis of contemporary issues in the discipline. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent (to be determined by the disciplines). This experiential component may include field studies, interdisciplinary learning, and/or the practical application of discipline-related concepts, theories, principles and methods with a specific focus. All courses require an

## Horticulture

### Introduction to Horticulture

HORT 1100 - 3 Credits

Principles and practices in the development, production and use of horticultural crops. Includes classification, structure, growth and development, environmental influences on horticultural plants, and vocational opportunities in the horticultural industries. (2 lecture hours, 2 lab hours)

### Soils and Fertilizers

HORT 1101 - 3 Credits

Nature and characteristics of soils including physical, chemical and biological properties, soil origins, classification, soilless media and proper soil management. Examines the interrelationship between soils and fertilizers and the selection and use of fertilizers to meet plant nutritional needs. (2 lecture hours, 2 lab hours)

### Floral Design I

HORT 1105 - 3 Credits

Principles and elements of floral design, with practice in creating basic floral designs and using proper techniques. Includes identification, care

and handling of flowers. (2 lecture hours, 2 lab hours)

### Applied Plant Taxonomy

HORT 1110 - 3 Credits

Classification of plant families with an emphasis on plant material used in the horticulture industry. Prerequisite: Horticulture 1100 or consent of instructor. (2 lecture hours, 2 lab hours)

### Landscape Design I

HORT 1111 - 3 Credits

The process of residential landscape design, site analysis and practical solutions of typical landscape problems. Includes plant selection, graphic presentation and correct placement of materials in the residential landscape. (2 lecture hours, 2 lab hours)

### Landscape Maintenance and Construction

HORT 1112 - 3 Credits

Landscape installation, maintenance and construction for residential, recreational and public grounds. (2 lecture hours, 2 lab hours)

### Floral Design II

HORT 1115 - 3 Credits

Continuation of the principles covered in Floral Design I. Introduces new styles and techniques and includes flower shop management. Prerequisite: Horticulture 1105 or equivalent or consent of instructor. (2 lecture hours, 2 lab hours)

### Water Conversation in the Landscape

HORT 1125 - 1 Credits

Residential water management issues and best practices needed for the retention and infiltration of water on a landscape site. Includes discussion of rain gardens, bio-swales and native plantings to conserve water. (1 lecture hour)

### Horticulture Business

HORT 1130 - 3 Credits

Principles and practices of operating a horticultural business and operational procedures for dealing with the perishable and seasonal nature of horticulture. Includes trends, skills and career opportunities in the various disciplines within horticulture. (3 lecture hours)

## Landscaping for Wildlife

HORT 1131 - 1 Credits

A study of landscape environments that offer food,

water, and shelter/nesting cover to local wildlife to help species compete in our changing environment. The role

of native plants in sustaining wildlife will be emphasized. (1 lecture hour)

# Hospitality & Tourism

## Introduction to the Hospitality Industry

HOSP 1100 - 3 Credits

Orientation to the hospitality industry, its history and magnitude, organization, challenges, and opportunities. Highlights interdependent nature of the public hospitality industry. (3 lecture hours)

## Introduction to Travel & Tourism

HOSP 1101 - 3 Credits

Overview of the career opportunities within the travel and tourism industries. Includes airlines, cruise lines, tour operators, wholesalers, charter operations, hotel representatives, car rental agencies, tourist offices, meeting and convention planning companies, incentive travel, consolidators, travel agencies, and home-based agents. Specific job titles and necessary skills will be examined. (3 lecture hours)

## Introduction to World Destinations

HOSP 1102 - 3 Credits

Covers the seven continents of the world in general terms. Discusses basic geography terminology including map reading, time zones, and the location of major airports and cities. Examines companies serving these areas for tourism purposes. Analyzes cultural differences, weather and climate conditions from a traveler's perspective. (3 lecture hours)

## Principles of the Travel Industry

HOSP 1103 - 3 Credits

An overview of responsibilities within the travel industry. Students will review the management functions including: analyzing, coordinating, implementing, and supervising tasks of managing a travel related business. Protocol, etiquette, and different types of travel professionals will be discussed, including the changing role of the travel agent. (3 lecture hours)

## Principles of the Tourism Industry

HOSP 1104 - 3 Credits

Introduction to the characteristics of tourism concepts and systems. Tourism past and present is discussed building around why people want to be tourists. (3 lecture hours)

## Introduction to Resort Management

HOSP 1105 - 3 Credits

Overview of resort management and operations. Review the history and the growth of resorts in the United States, expansion of resorts worldwide, and their operations and characteristics. (3 lecture hours)

## Front Office Operations

HOSP 1111 - 3 Credits

Supervisory management roles in the front office of a hotel or resort. Includes desk operations, reservations, sales, information management and uniformed services. Use of simulations, computers,



## Human Services

### Introduction to Human Services

HUMAN 1100 - 4 Credits

Introduction to Human Services systems through tours of facilities, discussions with professionals in the field, and examination of related films, articles and books pertinent to the field of Human Services. Students are familiarized with the roles and functions of Human Services workers through examination of the skills, knowledge, traits and attitudes necessary to enter the Human Services field. The ethical principles that guide the Human Services professional are explored in depth. (3 lecture hours, 2 lab hours)

### Esteem Building

HUMAN 1105 - 2 Credits

An overview of cognitive behavioral interventions that increase self esteem. The construct of self esteem are explored through research and assessment tests. Specific interventions and appropriate utilization of these interventions for various age groups are discussed. (2 lecture hours)

### Interpersonal Dynamics

HUMAN 1113 - 4 Credits

Overview of interpersonal skills that enhance therapeutic communication. Skills of empathy, respect, concreteness, genuineness, appropriate self-disclosure and confrontation are addressed. Assessment, interviewing and de-escalation techniques are introduced. (3 lecture hours, 2 lab hours)

### Contemporary Practice Models

HUMAN 1114 - 3 Credits

An introduction to current treatment approaches. Each approach is viewed in its historical, cultural and philosophical perspectives. Students demonstrate each theoretical model and assess its potential for incorporation into their developing counseling style. (2 lecture hours, 2 lab hours)

### Behavior Modification

HUMAN 1115 - 3 Credits

Exploration of the practical applications of behavior modification to childrearing, education, maladaptive behavior, interpersonal relationship, and self-control.

Class discussions, skills practice, and a behavior change project emphasizing the relationship of material learned to the real-life situations of students are included. (2 lecture hours, 2 lab hours)

### Cross-Cultural Communications

HUMAN 1121 - 4 Credits

Introductory course exploring a variety of issues related to cultural competency in Human Services practice. The concepts of race, ethnicity, culture, class, religion, gender, sexual orientation, ethnocentrism, oppression, and power will be explored. Practical application of acquired awareness, knowledge, and skills will be stressed. (3 lecture hours, 2 lab hours)

### Introduction to Addictions

HUMAN 1125 - 4 Credits

An overview of historical, cultural and current attitudes toward alcohol use; the model of alcoholism and other addictions; systems applications of the addictions model; the interaction of physical, psychological,

# Humanities

## Introduction to Humanities: The Arts

HUMNT 1101 - 3 Credits

An exploration of creativity as expressed in music, literature and/or the visual and performing arts of the Western tradition. Emphasis is on students' consideration and development of their own personal aesthetic values within an historical framework. Attendance at cultural events and an individual project may be required. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours)

## Introduction to Humanities: Ideas and Values

HUMNT 1102 - 3 Credits

An exploration of the nature of mankind, primarily as reflected in the disciplines of philosophy, history, literature and religious studies. Particular attention is paid to individual and communal identities, to questions of values, and to the struggle for personal fulfillment. Emphasis on students' consideration and development of their own personal, moral and ethical values. Attendance at outside events may be required. Prerequisite: Course

requires Reading Placement Test Score-Category One (3 lecture hours)

## Introduction to World Mythology

HUMNT 1103 - 3 Credits

Exploration of the significant myths, legends, and folktales of world cultures, with an emphasis upon the various ways in which they function in culture. Examines myth not only as a cultural artifact reflective of the values and ideals of a culture, but also as a source of universal themes and values in literature, drama, art, music, and film. Participation at outside activities may be required. (3 lecture hours)

## Non-Western Humanities

HUMNT 1105 - 3 Credits

Interdisciplinary survey of the significant intellectual and artistic achievements of several non-Western cultures, such as Asian, African, South American, Native American and Islamic. The course surveys selected works of literature, philosophy, visual art, music and other performing arts from each culture, as well as offers a comparative examination of their values, motifs and aesthetics with those of

Western cultural expression. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours)

## The Arts and Cultural Diversity

HUMNT 1110 - 3 Credits

An exploration of human relations and cultural diversity in the contemporary United States and their roots in African, Native American, Asian and Latin American civilizations. Creative artworks in the humanities, such as literature, film, art, music, photography, dance and drama, serve as catalysts to look in-depth at the topics of race, ethnicity, gender and other issues related to improving human relations. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours)

## Special Project

HUMNT 1800 - 1-3 Credits

Special project courses cover topics not otherwise covered by general education courses and other courses in the Catalog for the discipline. These courses require direct experience and focused

## Interior Design

### Drafting Interiors

INTER 1110 - 3 Credits

Introductory interior design course covering 2D architectural drafting and related graphic conventions. Course content also includes concept development and presentation techniques. (2 lecture hours, 2 lab hours)

### Sustainable Design I

INTER 1125 - 3 Credits

Introduction to sustainable design as a foundation for interior design applications. Content includes vocabulary, design methods, local and national resources, professional organizations and governmental Leadership in Energy and Environmental Design (LEED) standards. (2 lecture hours, 2 lab hours)

### Visualization Techniques

INTER 1135 - 3 Credits

Graphic visualizations including one and two point perspectives, and sketching techniques with an emphasis on concept development. Project visualizations are then enhanced with application of color, using marker for color studies and digital methods

for photo-realistic renderings. Prerequisite: Course requires Reading Placement Test Score-Category Three. Interior Design 1110 with a grade of C or better or equivalent or consent of instructor. (2 lecture hour, 2 lab hours)

### Architecture and Design History I

INTER 1151 - 3 Credits

Historical review of architecture and decorative arts from ancient cultures through the Hispanic Renaissance. Includes selected vocabulary, classical forms, use of ornament, colors, motifs and furniture styles. Prerequisite: Course requires Reading Placement Test Score-Category Three (3 lecture hours)

### Architecture and Design History II

INTER 1152 - 3 Credits

Historical review of architecture and decorative arts from the French Renaissance through the 21st century. Includes selected vocabulary, classical forms, use of ornament, colors, motifs and furniture styles. Prerequisite: Interior Design 1151 or equivalent or consent

of instructor. Course requires Reading Placement Test Score-Category Three (3 lecture hours)

### Architecture and Design History: Non-Wes

INTER 1153 - 3 Credits

Survey of non-Western architecture history, styles and decorative arts. Emphasis on cultural design concepts, furniture motifs, color applications and vocabulary. Prerequisite: Course requires Reading Placement Test Score-Category Three (3 lecture hours)

### Environmental Materials and Applications

INTER 1170 - 3 Credits

Survey course on interior design materials and resources and their application in the built environment, with a focus on sustainable design. Prerequisite: Interior Design 1110 with a grade of C or better or equivalent or consent of instructor. Course requires Reading Placement Test Score-Category Three (2 lecture hours, 2 lab hours)

## Barrier-Free and Life-Safety Codes

INTER 1190 - 3 Credits

Code information and specifications concerning built environment, life-safety issues,

barrier-free access, Americans with Disabilities Act (ADA), and universal design requirements applied to residential, contract and office design. Includes current international codes and

standards. Prerequisite: Interior Design 1110 or equivalent, or consent of instructor. Course requires Reading Placement Test Score-Category Three (3 lecture hours)

## Italian

### Civilization and Culture of Italy

ITALI 1100 - 3 Credits

Introduction in English to the culture, geography, history, economics, political institutions, literature, music, art, architecture, and educational system of Italy. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours)

equivalent or one year of high school Italian. (4 lecture hours)

two years of high school Italian. (4 lecture hours)

### Independent Study

ITALI 1840 - 1-4 Credits

Exploration and analysis of topics within the discipline to meet individual student-defined course descriptions, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. This course may be taken four times for credit as long as different topics are selected. Prerequisite: Consent of instructor is required (1 to 4 lecture hours)

### Intermediate Italian II

ITALI 2202 - 4 Credits

Further develops students' ability to speak, understand, read and write in a cultural context. Includes reading and discussion of modern texts, conversation, composition, grammar review and cultural activities. For students who have successfully completed Italian 2201 or equivalent or three years of high school Italian. (4 lecture hours)

### Elementary Italian I

ITALI 1101 - 4 Credits

Develops the ability to speak, understand, read and write Italian in a cultural context. For the beginning student. (4 lecture hours)

### Intermediate Italian I

ITALI 2201 - 4 Credits

Develops students' ability to speak, understand, read and write in a cultural context. Includes reading and discussion of modern texts, conversation, composition, grammar review, and cultural activities. For students who have successfully completed Italian 1102 or equivalent or

### Conversation and Composition I

ITALI 2251 - 3 Credits

Develops students' listening comprehension, speaking, reading, and writing skills and expands knowledge of the culture and civilization of Italy. For students who have successfully completed Italian 2202 or equivalent or four years of high school Italian. (3 lecture hours)

### Elementary Italian II

ITALI 1102 - 4 Credits

Continues the development of the ability to speak, understand, read and write Italian in cultural context. For students who have successfully completed Italian 1101 or

## Conversation and Composition II

ITALI 2252 - 3 Credits

Continues to develop students' listening comprehension, speaking, reading and writing skills and expands knowledge of the culture and civilization

of Italy. For students who have successfully completed Italian 2251 or equivalent or five years of high school Italian. (3 lecture hours)

# Japanese

## Japanese Civilization and Culture

JAPAN 1100 - 3 Credits

Introduction in English to the culture, history, political institutions, mentality, literature/art and economic position of present-day Japan. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours)

## Elementary Japanese I

JAPAN 1101 - 4 Credits

An introduction to modern Japanese: pronunciation, useful expressions, speech patterns, listening, reading and writing. (4 lecture hours)

## Elementary Japanese II

JAPAN 1102 - 4 Credits

Continuation of JAPAN-1101 with emphasis on increased accuracy in listening, speaking skills, reading and writing. For students who have successfully completed Japanese 1101 or equivalent or three years of high school Japanese. (4 lecture hours)

## Special Project

JAPAN 1800 - 1-4 Credits

Special project courses cover topics not otherwise covered by general education courses and other courses in the catalogue for the discipline. These courses require direct experience and focused reflection in an in-depth study of a specific discipline topic and/or the critical analysis of contemporary issues in the discipline. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30% but not to exceed 70% (to be determined by the disciplines). This experiential component may include field studies, interdisciplinary learning, and/or the practical application of discipline-related concepts, theories, principles, and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field

preparation, logistics, etc.). This course may be taken four times for credit.

## Independent Study

JAPAN 1840 - 1-4 Credits

Exploration and analysis of topics within the discipline to meet individual student-defined course descriptions, goals, objectives, topical outline, and methods of evaluation in coordination with and approved by the instructor. This course may be taken four times for credit as long as different topics are selected. Prerequisite: Consent of instructor is required (1 to 4 lecture hours)

## Intermediate Japanese I

JAPAN 2201 - 4 Credits

Continuation of JAPAN-1102 with emphasis on listening, speaking and writing of kana and kanji as well as reading of authentic materials. For students who have successfully completed Japanese 1102 or equivalent or 4 years of high school Japanese. (4 lecture hours)



## Intermediate Japanese II

JAPAN 2202 - 4 Credits

Continuation of JAPAN-2201 with emphasis on listening,

speaking and writing of kana and kanji as well as reading of authentic materials. For students who have successfully

completed Japanese 2201 or equivalent or five years of high school Japanese. (4 lecture hours)

## Korean

### Elementary Korean I

KOREA 1101 - 4 Credits

An introduction to modern spoken Korean: pronunciation, useful expressions, speech patterns, listening, reading and writing. (4 lecture hours)

### Elementary Korean II

KOREA 1102 - 4 Credits

Continuation of KOREA-1101 with emphasis on increased accuracy in listening, speaking skills, reading and writing. For students who have successfully completed Korean 1101 or equivalent or three years of high school Korean. (4 lecture hours)

### Independent Study

KOREA 1840 - 1-4 Credits

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. This course may be taken four times for credit as long as different topics

are selected. Prerequisite: Consent of instructor is required (1 to 4 lecture hours)

### Intermediate Korean I

KOREA 2201 - 4 Credits

Continuation of KOREA-1102 with emphasis on listening, speaking and writing of han-gul as well as reading of authentic materials. For students who have successfully completed Korean 1102 or equivalent or four years of high school Korean. (4 lecture hours)

### Intermediate Korean II

KOREA 2202 - 4 Credits

Continuation of KOREA-2201 with emphasis on listening, speaking, and writing of han-gul as well as reading of authentic materials. For students who have successfully completed Korean 2201 or equivalent or five years of high school Korean. (4 lecture hours)

### Internship (Career & Technical Ed)yCoop Ed/ Internship Occup

KOREA 2860 - 1-4 Credits

Course requires participation in Career and Technical Education work experience with onsite supervision. Internship learning objectives are developed by student and faculty member, with approval of employer, to provide appropriate work-based learning experiences. Credit is earned by working a minimum of 75 clock hours per semester credit hour, up to a maximum of four credits. Prerequisite: 2.0 cumulative grade point average; 12 semester credits earned in a related field of study; students work with Career Services staff to obtain approval of the internship by the Associate Dean from the academic discipline where the student is planning to earn credit.

### Internship Advanced (Career & Tech Ed)

KOREA 2865 - 1-4 Credits

## Library & Information Technology

### Intro to Libraries & the Information Age

LIBRA 1101 - 3 Credits

Introduction to different types of libraries and the information industry. The role of the Library Technical Assistant (LTA) in all areas of the library profession is explored. An overview of basic library and information research methods and tools, both print and digital format is presented. (3 lecture hours)

### Intro to Reference & Information Svcs

LIBRA 1102 - 4 Credits

Introduction to reference and information services for the Library Technical Assistant. Includes basic tools needed to answer directional and ready reference questions. Print and electronic resources, interview techniques and virtual reference services are discussed. Prerequisite: Library and Information Technology 1101 with a grade of C or better or consent of instructor (4 lecture hours)

### Acquisition of Library Materials

LIBRA 1103 - 3 Credits

Introduces the Library Technical Assistant to the

process of how to acquire materials from the decision to obtain them to the time they are ready to be cataloged. Automation processes and techniques are incorporated. Prerequisite: Library and Information Technology 1101 with a grade of C or better or consent of instructor (3 lecture hours)

### Essential Library Workplace Skills

LIBRA 1104 - 3 Credits

Overview of the skills necessary to communicate effectively with coworkers and the public, work in team settings, deal with a variety of personality types, resolve conflicts, and become an effective part of the library workforce. (3 lecture hours)

### Readers Advisory

LIBRA 1105 - 3 Credits

Introduces genres of literature and techniques for patron interaction. Topics include library collection analysis, display creation, bibliographic tool development and reading programs. Prerequisite: Library and Information Technology 1101 or equivalent or consent of instructor (3 lecture hours)

### Selected Topics

LIBRA 1820 - 3 Credits

Addresses current issues in the field that necessitate a greater depth, broader scope or fuller assimilation of a particular area of study. Prerequisite: Library and Information Technology 1101 or equivalent, or consent of instructor or program coordinator (3 lecture hours)

### Independent Study

LIBRA 1840 - 1-4 Credits

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. This class may be taken four times for credit as long as different topics are selected. Prerequisite: Consent of instructor is required (1 to 4 lecture hours)

### Intro to Cataloging & Classification

LIBRA 2100 - 4 Credits

The role of Library Technical Assistant (LTA) in descriptive and subject cataloging and processing of print and non-

# Management

## Supervision

MANAG 1100 - 3 Credits

Prepares the individual to manage front-line workers and the responsibilities, problems, challenges and opportunities facing a supervisor. Presents the range of supervisory methods from classical to behavioral.

## Selected Topics

MANAG 1820 - 3 Credits

Introductory exploration, discussion, review and analysis of selected topics in management with a specific theme indicated by course title listed in college Class Schedule. This course may be taken four times for credit as long as different topics are selected. (3 lecture hours)

## Independent Study

MANAG 1840 - 1-3 Credits

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. This course may be taken four times for credit as long as different topics are selected. Prerequisite:

Consent of instructor is required (1 to 3 lecture hours)

## Project Management

MANAG 2170 - 3 Credits

Overview of project management tools and methodology. Includes the strategic significance of projects, project selection, team building and decision-making, and project planning, scheduling, budgeting and resource allocation. Project implementation, control and termination are also included. Provides a foundation for those involved in using project management to decrease cycle times in e-commerce and traditional business operations. (3 lecture hours)

## Principles of Management

MANAG 2210 - 3 Credits

Essential principles and concepts of management. Includes theoretical bases and practical applications of planning, controlling, organizing, and directing, human, financial, material, and informational resources. Integrates management history, decision-making models, international and diversity management with

the functions of management. Covers classical and behavioral approaches to management. Completion of Business 1100 recommended prior to enrollment. (3 lecture hours)

## Leadership

MANAG 2215 - 3 Credits

Characteristics of leaders, leadership styles and methods, power, politics and influence styles, teamwork, and leadership problem solving. Strategic leadership, international and diversity aspects of leadership and leadership development. Completion of Business 1100 or equivalent is recommended prior to enrollment. (3 lecture hours)

## Organizational Behavior

MANAG 2220 - 3 Credits

How people behave in organizations and the forces that affect individuals within organizations. Study of the working environment, organizational communications, the organizational framework and their effects on individual behavior, including self-management, motivation, morale, job satisfaction, change, leadership and organization etiquette. Includes



# Manufacturing Technology

## Blueprint Reading for Machinists

MANUF 0480 - 1 Credits

Lines, dimensions, tolerances, notes, symbols, specifications, materials, manufacturing processes and standards. Orthographic and pictorial projections. Machine shop terminology. (1 lecture hour)

## Industrial Design/CAD

MANUF 1101 - 3 Credits

An introduction to the use of microcomputers for design of industrial blueprints of intermediate complexity. Sketching, lettering, orthographic projections, descriptive geometry, point, line and basic geometric shapes. The use of menus, layers, fonts and weights. Basic dimensioning, tolerancing and pictorial drawings. The student is expected to draw a blueprint with simple dimensions label and notes using different layers. (2 lecture hours, 2 lab hours)

## Technical Mechanics

MANUF 1104 - 2 Credits

Analysis and solution of practical problems in technical mechanics. Application

of basic calculations and standards for design and maintenance of mechanical systems. (2 lecture hours)

## Metrology

MANUF 1110 - 3 Credits

Initial course in the science of precision measurement techniques. Basic and advanced methodology behind measurement principles and tools used in the measurement process. Emphasis on laboratory skills in dimensional measurement using micrometers, calipers and gage blocks. Basics of geometric tolerancing and data analysis. Various applications of measurement including the Coordinate Measuring Machine (CMM), roundness measurement, and surface finish measurement. Additional topics include optical systems and quality control methods, as well as calibration standards. (2 lecture hours, 2 lab hours)

## Physical Metallurgy

MANUF 1121 - 3 Credits

Functions of the metallurgical laboratory and equipment including mechanical testing, metallography, heat treatment and extractive metallurgy. Basic principles

concerning materials science including atomic and crystal arrangements and their effect on mechanical properties. Simple phase equilibrium. Ferrous and nonferrous metals and alloys classification systems. (2 lecture hours, 2 lab hours)

## Introduction to Plastics

MANUF 1126 - 3 Credits

The theory and use of plastics in industry. Physical, chemical and electrical properties of plastics and testing criteria are discussed. Processes such as injection molding, extrusion, blow molding, rotational molding, and thermoforming are covered. Control factors affecting the quality of parts, applications, benefits and limitations of plastics are explained. Related topics include process relationships, parameter setting techniques, rapid changeover techniques, process control and troubleshooting. (3 lecture hours)

## Engineering Materials of Industry

MANUF 1127 - 3 Credits

Basic principles of materials technology including the internal structures of materials,

# Marketing

## Consumer Marketing

MARKE 1100 - 3 Credits

Consumer behavior and marketing principles, concepts, functions and activities involved in generating consumer satisfaction through business and marketing transactions. (3 lecture hours)

## Internet & Social Media Marketing

MARKE 1170 - 3 Credits

Marketing through the use of the Internet and mobile devices. Improving marketing with websites, social media, electronic discounts, and video-sharing to satisfy customer needs. (3 lecture hours)

## Database Marketing

MARKE 1171 - 3 Credits

Strategy, methods and techniques used to design, generate, compile, analyze and strategically use marketing databases. (3 lecture hours)

## Customer Relationship Management

MARKE 1175 - 3 Credits

Strategy and methods used to increase customer satisfaction and to improve and maintain

customer relationships. (3 lecture hours)

## Selected Topics I

MARKE 1820 - 3 Credits

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college Class Schedule. This course may be taken four times for credit as long as different topics are selected. (3 lecture hours)

## Independent Study

MARKE 1840 - 1-3 Credits

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. This course may be taken four times for credit as long as different topics are selected. Prerequisite: Consent of instructor is required (1 to 3 lecture hours)

## Principles of Marketing

MARKE 2210 - 3 Credits

Study of satisfying customer needs for goods and services. Marketing environments, marketing planning, and marketing research. Market

segmentation, targeting, and positioning. Essentials of consumer behavior. Products, pricing, promotions, and distribution. Basic competitor analysis and global marketing. Completion of Business 1100 recommended prior to enrollment. (3 lecture hours)

## Domestic Distribution Channels

MARKE 2215 - 3 Credits

Creation and maintenance of a domestic logistics system to move products from producers to consumers. Role of distribution in the marketing effort and in meeting the needs of customers. Distribution channel design, management, motivation, evaluation, price determination and conflict resolution. Domestic logistics and distribution for Internet and direct marketing. Prerequisite: Business 1100 or equivalent and Marketing 2210 or equivalent (3 lecture hours)

## Principles of Selling

MARKE 2220 - 3 Credits

Selling as a problem-solving activity, strategic development, and implementation of the sales process and its components within the context of effective communication,

## Mass Communication

### Introduction to Mass Communication

MCOMM 1100 - 3 Credits

Overview of the mass media as a functionally-integrated system that emphasizes critical thinking about historical development, nature, functions, and storytelling responsibilities in a global environment. Mass media roles in American society and the effect on consumers through social and traditional media are included. For non-majors and majors. (3 lecture hours)

### News Reporting & Writing for Multimedia

MCOMM 1105 - 3 Credits

Develops basic journalistic reporting skills and storytelling techniques in a multimedia environment for citizen journalism and professional news gathering. Emphasizes live reporting to produce news stories, podcasts, video assignments and social media. (3 lecture hours)

### Intro to Broadcasting-Global Environment

MCOMM 1120 - 3 Credits

Introduces students to the history of broadcasting and the

concept of how globalization has impacted the broadcasting industry today. Students develop projects on U.S. broadcast programming, important media figures, FCC regulations, and non-U.S. media. (3 lecture hours)

### Basic News Editing

MCOMM 1130 - 3 Credits

Introduction to principles and techniques of electronic editing, information management and publication design. Emphasizes editing of body copy and display type for maximum clarity and impact. Students learn and apply Associated Press standard style for mass media publication writing. (3 lecture hours)

### Special Project

MCOMM 1800 - 1-3 Credits

Special project courses cover topics not otherwise covered by general education courses and other courses in the Catalog for journalism and mass communication. These courses require direct experience and focused reflection in an in-depth study of a specific discipline topic and/or the critical analysis of contemporary issues in the

discipline. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent. This experiential component may include field studies, interdisciplinary learning, and/or the practical application of discipline-related concepts, theories, principles and methods with a specific focus. All courses hold an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, and other appropriate requirements).

### Independent Study

MCOMM 1840 - 1-4 Credits

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. This course may be taken four times for credit as long as different topics are selected. Prerequisite: Consent of

# Mathematics

## Study Skills: Math Anxiety

MATH 0405 - 1 Credits

Basic course designed for students who want to reduce or manage math anxiety. Students examine underlying issues that contribute to math anxiety; discuss various learning styles; assess own learning style; learn ways to accommodate an instructor's teaching style; and learn strategies and techniques to effectively cope with math anxiety. This course may be taken three times for credit. This course can only be taken on a pass/fail basis. Prerequisite: Consent of instructor is required. (1 lecture hour)

## Arithmetic Whole Numbers I

MATH 0408 - 0.5 Credits

Computation skills involving addition and subtraction of whole numbers and applications. This course can only be taken on a pass/fail basis. Prerequisite: Consent of instructor is required. (.5 lecture hour)

## Arithmetic Whole Numbers II

MATH 0409 - 0.5 Credits

Computation skills involving multiplication and division of whole numbers and applications. This course can only be taken on a pass/fail basis. Prerequisite: Consent of instructor is required. (0.5 lecture hour)

## Arithmetic of Whole Numbers

MATH 0410 - 0.5 Credits

Computation skills involving addition, subtraction, multiplication, division and applications of whole numbers. This course may be taken four times for credit. Prerequisite: Consent of instructor is required. (0.5 lecture hour)

## Arithmetic of Fractions I

MATH 0412 - 0.5 Credits

Computation skills involving addition and subtraction of fractions and mixed numbers. This course may be taken four times for credit. Prerequisite: Consent of instructor is required. (0.5 lecture hour)

## Arithmetic of Fractions II

MATH 0413 - 0.5 Credits

Computation skills involving multiplication and division of fractions and mixed numbers. This course may be taken four

times for credit. Prerequisite: Consent of instructor is required (0.5 lecture hour)

## Arithmetic of Decimals

MATH 0415 - 0.5 Credits

Computation skills involving addition, subtraction, multiplication and division of decimals. This course may be taken four times for credit. Prerequisite: Consent of instructor is required. (0.5 lecture hour)

## Arithmetic of Percents

MATH 0417 - 0.5 Credits

Computation skills involving percents, conversions among fractions, o decimals and percents including applications. This course may be taken four times for credit. Prerequisite: Consent of instructor is required. (0.5 lecture hour)

## Arithmetic of Ratio/Proportion

MATH 0418 - 0.5 Credits

Computation skills involving ratio and proportion. This course may be taken four times for credit. Prerequisite: Consent of instructor is required. (0.5 lecture hour)

### **Arithmetic: Special Topics**

MATH 0420 - 0.5 Credits

Topics include exponents, roots, rounding and estimating. This course may be taken four

times for credit. Prerequisite: Consent of instructor is required. (0.5 lecture hour)

## **Medical Assistant**

### **Med Assistant Administrative Procedures**

MASST 1130 - 3 Credits

Introduction to the profession and responsibilities of a medical assistant with an emphasis on basic administrative procedures and basic practice finances. Prerequisite: Computer Information Systems 1110 with a grade of C or better or Computer Information Systems 1150 with a grade of C or better or Office Technology Information 1200 with a grade of C or consent of instructor (2 lecture hours, 2 lab hours)

### **Health Insurance for Medical Assistants**

MASST 1133 - 3 Credits

Introduction to billing, coding, and health care insurance as it relates to physician offices. Prerequisite: Computer Information Systems 1110 with a grade of C or better or Computer Information Systems 1150 with a grade of C or better or Office Technology Information 1200 with a grade of C or better or consent of

instructor. (2 lecture hours, 2 lab hours)

### **Legal and Ethical Aspects of Health Care**

MASST 2211 - 3 Credits

Legal and ethical aspects of health care with an emphasis on patient's rights, confidentiality, liability, code of ethics, documentation, consent, release of information and standard of care as they apply to medical assisting. Prerequisite: Health Sciences 1110 with a grade of C or better or equivalent or consent of instructor (3 lecture hours)

### **Pathophysiology for Med Assisting**

MASST 2233 - 3 Credits

Study of functional changes that accompany injuries, disorders and disease states as they relate to medical assisting. Prerequisite: Anatomy & Physiology 1500 with a grade C or better or equivalent or Anatomy & Physiology 1551 and Anatomy & Physiology 1552 with a grade of C or better or equivalent, or Anatomy

& Physiology 1571 and Anatomy & Physiology 1572 with a grade of C or better or equivalent or consent of instructor (3 lecture hours)

### **Assisting With Medical Specialties**

MASST 2237 - 3 Credits

Clinical skills required for medical assistants in a variety of physician specialty offices including emergency settings. Prerequisite: Medical Assistant 2233 with a grade of C or better or equivalent or concurrent enrollment in Medical Assistant 2233 or consent of instructor. (2 lecture hours, 3 lab hours)

### **Medical Assistant Clinical Procedures**

MASST 2239 - 3 Credits

Study of clinical procedures performed by a medical assistant with an emphasis on medical asepsis, infection control, patient education, nutrition, health promotion, and basic clinical assessment. Prerequisite: Medical Assistant 2233 with a grade of C or better or equivalent or



# Microbiology

## Microbiology

**MICRO 1420 - 4 Credits**

The study of bacteria, viruses and other microbes. Included are identification techniques, microbial genetics, immunology, growth and control, an overview of those microbes important to man, and modern molecular issues. Intended for students in health, food and environmental fields as well as biology majors. BIOLO-1151 is strongly recommended. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours, 3 lab hours)

## Independent Study

**MICRO 1840 - 1-4 Credits**

Exploration and analysis of topics within microbiology to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. This course may be taken four times for credit as long as different topics are selected. Prerequisite: Consent of instructor is required (1 to 4 lecture hours)

## Internship (Career & Technical Ed)/Coop Ed/ Internship Occup

**MICRO 2860 - 1-4 Credits**

Course requires participation in Career and Technical Education work experience with onsite supervision. Internship learning objectives are developed by student and faculty member, with approval of employer, to provide appropriate work-based learning experiences. Credit is earned by working a minimum of 75 clock hours per semester credit hour, up to a maximum of four credits. Prerequisite: 2.0 cumulative grade point average; 12 semester credits earned in a related field of study; students work with Career Services staff to obtain approval of the internship by the Associate Dean from the academic discipline where the student is planning to earn credit.

## Internship Advanced (Career & Tech Ed)

**MICRO 2865 - 1-4 Credits**

Continuation of Internship (Career and Technical Education). Course requires participation in Career & Technical Education work experience with onsite

supervision. Internship learning objectives are developed by student and faculty member, with approval of employer, to provide appropriate work-based learning experiences. Credit is earned by working a minimum of 75 clock hours per semester credit hour, up to a maximum of four credits. Prerequisite: 2.0 cumulative grade point average; 12 semester credits earned in a related field of study; students work with Career Services staff to obtain approval of the internship by the Associate Dean from the academic discipline where the student is planning to earn credit.

## Internship (Transfer)

**MICRO 2870 - 1-4 Credits**

Course requires participation in work experience with onsite supervision. Internship learning objectives are developed by student and faculty member, with approval of employer, to provide appropriate work-based learning experiences. Credit is earned by working a minimum of 75 clock hours per semester credit hour, up to a maximum of four credits. Prerequisite: 2.0 cumulative grade point average; 12 semester credits earned in a related field of study; students work with Career Services staff to obtain

## Motion Picture/Television

### Intro to Motion Pictures & Television

MPTV 1011 - 3 Credits

Hands-on introduction to motion pictures and television, emphasizing basic pre-production, production and post-production in animation, audio, television commercials and digital film shorts. Cameras, microphones and basic non-linear editing systems are used. (1 lecture hour, 4 lab hours)

### Editing for Motion Pictures & Television

MPTV 1020 - 3 Credits

Introduction to picture and sound editing for motion pictures and television. Explores editing aesthetics, theory and techniques using a non-linear editing system. Emphasis on creation and critique of pieces for in-class use. Material for editing is provided. (6 lab hours)

### Audio for Motion Pictures and Television

MPTV 1022 - 3 Credits

Introduction to audio production and post-production for motion pictures and television. Explores audio aesthetics, theory and

techniques. Includes field and studio recording, multi-track mixing and audio editing. Prerequisite: Motion Picture/Television 1011 or consent of instructor. (6 lab hours)

### Film/Video Aesthetics

MPTV 1111 - 3 Credits

An introduction to film and video as an art form, including a study of the aesthetic and production elements of the medium. Emphasizes the use of visual and audio designs in cinematic storytelling. Screenings, lectures and production projects will be used. (3 lecture hours)

### Film History

MPTV 1113 - 3 Credits

An international survey of the historical development of film, emphasizing a study of films and innovations in film production that have had significant influence on film as an art form. Screenings, lectures, discussions and production projects are used. (3 lecture hours)

### Cinematography

MPTV 1120 - 3 Credits

An introduction to camera and lighting techniques used in

film and video productions. Emphasizes aesthetics, light placement, exposure, equipment, movement and crew roles. Prerequisite: Motion Picture/Television 1111 or consent of instructor (6 lab hours)

### History of Television

MPTV 1213 - 3 Credits

A survey of the historical development of television, emphasizing a study of television innovations in television broadcast production. Screenings, discussions, and production projects will be used. (3 lecture hours)

### Intro to Television Studio Production

MPTV 1220 - 3 Credits

Introduction to multi-camera studio production and location video recording. Explores directing, techniques, operation of studio and control room, conceptualization, basic script writing, audio board operations and lighting in a studio setting. (6 lab hours)

### Writing for Television

MPTV 1222 - 3 Credits



# Music

## Music Appreciation

MUSIC 1100 - 3 Credits

A general introductory course designed to enhance listening enjoyment and ability. Emphasis on the elements of music, the characteristic styles of major historical periods, and the lives and works of key composers within the Western musical tradition. Course includes in-class demonstrations and attendance at outside musical events. No previous musical study required. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours)

## Music Theory I

MUSIC 1101 - 3 Credits

Introductory studies in music including fundamentals, figured bass realization, analysis of small structures and music writing. Emphasis on diatonic harmony. Prerequisite: Concurrent enrollment in Music 1107 and Music 1171 is required or consent of instructor. Course requires Reading Placement Test Score-Category One (3 lecture hours)

## Music Theory II

MUSIC 1102 - 3 Credits

Continued studies in music including figured bass realization, analysis of small forms and music writing. Emphasis on diatonic harmony. Prerequisite: Music 1101 with grade of C or better or equivalent and concurrent enrollment in Music 1108 and Music 1172 or consent of instructor. Course requires Reading Placement Test Score-Category One (3 lecture hours)

## Introduction to American Music

MUSIC 1104 - 3 Credits

A survey of various American contributions to the world's musical culture, with an emphasis on understanding musical terminology and developing the ability to listen intelligently. No previous musical experience is required. Musical examples will include 19th century classical compositions and subsequent gospel, blues, jazz and popular music, presented within a general overview of American culture of the time. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours)

## Music Literature

MUSIC 1105 - 3 Credits

Introduction to the characteristic styles of major historical periods and to representative composers. Provides exposure to different performing media and musical forms. Includes in-class demonstrations, extensive listening, and attendance at outside musical events. Assumes a fundamental knowledge of the elements of music. Designed to increase the understanding of music literature through emphasis on development of musical vocabulary. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours)

## Fundamentals of Music

MUSIC 1106 - 3 Credits

An introduction to the rudiments of music theory and musical notation, including pitch, rhythm, meter, intervals, scales, chords, and musical terminology. Includes elementary ear-training and sight-singing, as well as the study of keyboard geography. No previous musical experience is required. Does not count toward the AFA degree in music. (3 lecture hours)

## Aural Skills I

MUSIC 1107 - 1 Credits

The study of eartraining and sightsinging utilizing diatonic materials. Course content includes the recognition of

intervals, scales and modes, as well as dictation of melodic, harmonic and rhythmic material reinforcing concepts presented in Music 1101. Prerequisite: Concurrent

enrollment in Music 1101 and Music 1171 is required or consent of instructor. Course requires Reading Placement Test Score - Category One (3 lab hours)

# Nursing

## Introduction to Health Care

NURSI 1100 - 3 Credits

Concepts and principles related to health, health care delivery and nursing. Emphasis is placed on the communication process and the impact of culture, ethnicity and spirituality on health-seeking behaviors. Concepts of interdisciplinary health teams and theoretical foundation of beginning nursing skills are introduced. Strategies for success in the nursing program are introduced. Prerequisite: Admission to Nursing program or consent of instructor (3 lecture hours)

## Nursing I: Fundamentals

NURSI 1101 - 3 Credits

Fundamentals of nursing practice including major concepts, basic knowledge, and nursing skills related to the care of clients are introduced. Assessment of the client such as physical assessment, culture, pharmacology, and

the nursing process are a main focus. Lecture, discussion, and college and clinical practice laboratories are used as learning experiences. Clinical experiences include acute and/or non-acute settings. Prerequisite: Admission to Nursing program, Nursing 1100, current CNA in Illinois, Anatomy & Physiology 1552 or Anatomy & Physiology 1572. (1.5 lecture hours, 4 lab hours)

## Nursing 2: Mental Health

NURSI 1102 - 3 Credits

Enhancement of the mental health of individuals across the life span. Nursing management of the major clinical syndromes, primary prevention, early intervention of alterations in thoughts, moods, and behavior. Role of the professional nurse as a partner in a multidisciplinary team. Clinical experiences include acute care hospitals, behavioral health centers, and related treatment settings. Prerequisite: Nursing 1101 (2 lecture hours, 4 lab hours)

## Nur 3: Periop/Musculo

NURSI 1103 - 3 Credits

Care of the surgical client during the perioperative period and clients experiencing musculoskeletal problems. Lecture, discussion, laboratory, and clinical practice are used as learning experiences. Nursing skills basic to the care of the medical-surgical client. Clinical experiences include acute and/or non-acute settings. Prerequisite: Nursing 1101 (1 lecture hour, 5 lab hours)

## Introduction to Physical Assessment

NURSI 1104 - 1 Credits

Theory and skills related to history taking, physical assessment and completing a head-to-toe assessment of the adult patient. Significant assessment differences in the pediatric patient is discussed. Prerequisites: Admission to Nursing program and Nursing 1100 with a grade of C or better or equivalent (1 lecture hour)

## Medical-Surgical I

NURSI 1105 - 7 Credits

Principles of nursing practice including major concepts, basic knowledge and nursing skills related to the care of patients are introduced. Pharmacology, pain control, nursing process, care of the surgical patient,

and care of patients with alterations in: musculoskeletal system, skin integrity, fluid and electrolytes and shock states (hypovolemic and septic) are main foci. Lecture, discussion, college laboratories and clinical practice are used as learning experiences. Clinical experiences include acute

and/or non-acute settings. Prerequisite: Admission to Nursing program, Nursing 1100 with a grade of C or better, Anatomy & Physiology 1552 or Anatomy & Physiology 1572 with a grade of C or better and current CNA in Illinois. (4 lecture hours, 8 lab hours)

## Office Technology Information

### Keyboarding and Document Fundamentals

OFTI 1100 - 3 Credits

Beginning keyboarding course designed for the student with limited keyboarding experience. (3 lecture hours)

Format and produce academic, business, and personal documents using word processing software in mailable format. Knowledge of word processing is recommended. Completion of Office Technology Information 1100 or 1105 with a grade of C or better or 25 words per minute keyboarding speed is recommended. (3 lecture hours)

knowledge are recommended for successful completion of this course. (3 lecture hours)

### Speed Development Keyboarding

OFTI 1105 - 3 Credits

Keyboarding course designed for the student with some keyboarding experience. Includes touch system keyboard review of alphabetic, alphanumeric, symbol, and ten-key pad. Focus on speed, accuracy, and concentration development using diagnostic software. This course can be taken two times for credit. (3 lecture hours)

### Business Correspondence

OFTI 1130 - 3 Credits

Basic instruction and practice in developing the vital employment skills of planning, writing and formatting effective business communication including sentences, paragraphs, memos, letters, e-mail, and formal and informal reports. Includes current business spelling, punctuation and grammar skills. Keyboarding skills and word processing

### MS Office for Professional Staff

OFTI 1200 - 3 Credits

Introductory course in Microsoft Office utilizing the basic functions of file management, operating system, browser, word processing, spreadsheet, electronic presentation, and database software. Designed for the office professional or individuals wishing to learn and/or upgrade software skills. May not be substituted for Computer Information Systems 1205. Keyboarding skills recommended (3 lecture hours)

### Document Formatting

OFTI 1110 - 3 Credits

### E-Mail and Electronic Communication

OFTI 1203 - 3 Credits

Introductory course using Microsoft Outlook emphasizing efficient use of e-mail,

## Paralegal Studies

### Introduction to Paralegal Studies

PLGL 1100 - 3 Credits

Designed to give students a basic understanding of the various functions of the paralegal/legal assistant's role in the American legal system. Builds a foundation of basic knowledge and skills necessary for someone seeking a career in the paralegal/legal assistant field. Prerequisite: English 1101 with a grade of C or better or equivalent or a score in the writing placement test to place into English 1101 or consent of instructor (3 lecture hours)

### Drafting Legal Documents

PLGL 1150 - 3 Credits

Introduction to purposes and uses of various legal document drafting formats. Focus is on creation of basic legal documents that meet professional standards. Prerequisite: English 1101 with a grade of C or better or equivalent or consent of instructor. (3 lecture hours)

### Civil Litigation

PLGL 1200 - 3 Credits

Designed to give paralegal students an understanding of the litigation process commencing from the initial fact-gathering stage through post-judgment proceedings. Builds a foundation of the procedural rules governing litigation as well as practice in comprehending and drafting litigation documents. Equal emphasis will be placed on practical application and theoretical knowledge. Prerequisite: Paralegal Studies 1100 with a grade of C or better or equivalent (3 lecture hours)

### Legal Ethics/Law Office Organization

PLGL 1250 - 3 Credits

Covers the rules of legal ethics and the regulation of the legal profession. Law office organization and management are discussed. Hands-on exercises using law office technology are also included. Prerequisites: Paralegal Studies 1100 with a grade of C or better or equivalent (3 lecture hours)

### Intro to Legal Research and Writing

PLGL 1500 - 3 Credits

Instruction in the basic techniques and skills necessary to conduct legal research and to summarize the results of that research in appropriate written form. Students learn to use legal research tools (both online and print) and develop legal reasoning skills to craft written documents such as legal correspondence, legal memoranda, and legal briefs. Practical skills are developed through sequential written assignments which build analytical, research, and writing skills throughout the semester. Prerequisite: Paralegal Studies 1100 and Paralegal Studies 1150 with a grade of C or better or equivalent and students must have been accepted into the program pursuant to the program admission requirements or consent of instructor (3 lecture hours)

### Selected Topics I

PLGL 1820 - 1-3 Credits

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college course schedule. This course may be taken four times for credit as long as different topics are selected. (1 to 3 lecture hours)

## Advanced Legal Research and Writing

PLGL 2100 - 3 Credits

Advanced techniques and skills in legal research and legal

writing. Focus on analytical skills in the examination of case law and precedent to prepare a trial court memorandum of law and portions of an appellate

court brief. Prerequisite: Paralegal Studies 1500 with a grade of C or better or equivalent (3 lecture hours)

## Philosophy

### Introduction to Philosophy

PHILO 1100 - 3 Credits

Introduces the student, through the study of knowledge, reality and human conduct, to the discipline that inquires into human nature and the world. Designed to increase the student's self-awareness and ability to think. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours)

Study of the theories and principles of ethics as applied to the major areas of biomedical ethical concern: moral problems in the professional/patient relationship, in life and death, in allocation of scarce medical resources, and in medical and health care on a social scale. Current issues such as abortion, euthanasia and genetic research are considered. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours)

Study of the theories and principles of ethics as applied to major areas of environmental and ecological concern: pollution, land use, animal rights, population, consumption and waste disposal. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours)

### Ethics

PHILO 1110 - 3 Credits

Study of the elements of ethics, including principle ethical theories, principles, concepts and meanings, and their practical application to moral problems, dilemmas and decisions. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours)

### Business Ethics

PHILO 1114 - 3 Credits

A study of moral issues in business and the broader issues of economic justice through a study of ethical theories and their application to actual case studies. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours)

### Biomedical Ethics

PHILO 1112 - 3 Credits

### Environmental Ethics

PHILO 1116 - 3 Credits

### Logic

PHILO 1120 - 3 Credits

Introduces the student to the art and science of reasoning. Skills developed include analyzing formal and informal reasoning; identifying errors in reasoning and learning to avoid them; distinguishing different species of reasoning, including deductive and inductive styles of argumentation; and analyzing language for both logical and rhetorical force. Experience in non-remedial, college-level mathematics is strongly recommended. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours)



## Critical Thinking

PHILO 1125 - 3 Credits

An investigation into and application of the principles of

effective thinking in order to develop and enhance one's ability to consciously direct focused mental activity to solve problems, achieve desired

goals, evaluate beliefs and guide actions. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours)

# Photography

## Fundamentals of Photography

PHOTO 1100 - 3 Credits

An exploration of the fundamental principles, techniques and application of camera-based image making. (3 lecture hours)

A visually oriented history of the development of photography in both its commercial and creative aspects. (3 lecture hours)

enrollment in Photography 1200 or consent of instructor. (6 lab hours)

## Foundations of Digital Photography

PHOTO 1101 - 3 Credits

Explores the techniques and applications of acquiring, manipulating, and outputting digitized photographic images utilizing Adobe Lightroom and Adobe Photoshop. (6 lab hours)

## Intermediate Photography

PHOTO 1200 - 3 Credits

An exploration of various expressive devices contributing to aesthetic interpretation of a photograph. Emphasis is on the development of the student's self-expression. Prerequisite: Photography 1101 or equivalent or consent of instructor. (3 lecture hours)

## Tools & Techniques for Film Photography

PHOTO 1202 - 3 Credits

Technical skills for film photography are covered, including refinement of exposure, development and printing of black-and-white images. Criteria for selection of appropriate equipment and materials are also covered. Prerequisite: Photography 1102 or equivalent and Photography 1200 or consent of instructor. (6 lab hours)

## Foundations of Film Photography

PHOTO 1102 - 3 Credits

Explores the techniques and applications for developing and projection printing of film camera images in the chemical darkroom. (6 lab hours)

## Tools & Techniques-Digital Photography

PHOTO 1201 - 3 Credits

Technical skills for digital photography are covered including refinement of exposure, post-image capture processing, and manipulation. Issues addressing controlled output of digital images are also covered. Prerequisite: Photography 1200 or equivalent, or concurrent

## Advanced Digital Imaging

PHOTO 1250 - 3 Credits

An advanced seminar in digital image-making concepts and techniques, allowing in-depth exploration of extended computer-based photo projects. Prerequisite: Photography 1201 or equivalent or consent of instructor. (6 lab hours)

## History of Photography

PHOTO 1105 - 3 Credits

## Alternative Photographic Processes

PHOTO 1260 - 3 Credits

Designed to meet the needs of the creative photographer. Allows experimentation with a variety of camera and darkroom options for producing

photographic images. Prerequisite: Photography 1102 with a grade of C or better or equivalent or consent of instructor. (6 lab hours)

# Physical Education

## Aerobic Fitness Lab I

PHYS 1101 - 1 Credits

Aerobic training and strength training are emphasized in a personally designed fitness program that uses target heart rate and training zone techniques. Weight machines and cardiovascular machines are used in an activity program designed to develop three important results of physical fitness: strength, flexibility and endurance. (2 lab hours)

## Aerobic Fitness Lab II

PHYS 1102 - 1 Credits

Aerobic training and strength training are emphasized in a personally designed fitness program that uses target heart rate and training zone techniques. Weight machines and cardiovascular machines are used in an activity program designed to develop three important results of physical fitness: strength, flexibility and endurance. Prerequisite: Physical Education 1101 (2 lab hours)

## Aerobic Fitness Lab III

PHYS 1103 - 1 Credits

Aerobic training and strength training are emphasized in a personally designed fitness program that uses target heart rate and training zone techniques. Weight machines and cardiovascular machines are used in an activity program designed to develop three important results of physical fitness: strength, flexibility and endurance. Prerequisite: Physical Education 1102 (2 lab hours)

## Aerobic Fitness Lab IV

PHYS 1104 - 1 Credits

Aerobic training and strength training are emphasized in a personally designed fitness program that uses target heart rate and training zone techniques. Weight machines and cardiovascular machines are used in an activity program designed to develop three important results of physical fitness: strength, flexibility and endurance. Prerequisite: Physical Education 1103 (2 lab hours)

## Aerobics I

PHYS 1106 - 1 Credits

Aerobic fitness choreographed to music. Performance of basic exercise movements, patterns and dance steps to improve cardiovascular endurance, muscular endurance, muscle tone, flexibility and rhythmic coordination. (2 lab hours)

## Aerobics II

PHYS 1107 - 1 Credits

A continuation of Aerobics I. Further improvement in cardiovascular endurance, muscular endurance, muscle tone, flexibility and rhythmic coordination. Increasing intensity of workouts and improving performance are main goals. Prerequisite: Physical Education 1106 or equivalent experience (2 lab hours)

## Sit & Stand-Chair Aerobics I

PHYS 1108 - 0.5-1 Credits

Balance, agility, flexibility, cardiovascular and muscular endurance are all enhanced as



# Physical Therapist Assistant

## Introduction to Physical Therapy

PHYTA 1100 - 2 Credits

Overview of the physical therapy profession within the health care delivery system from a historical, philosophical and organizational context. Explores the physical therapy frame of reference in various practice and treatment areas. Personal and professional qualities of the health care provider, professional ethics, and the psychological aspects of treatment are discussed. Prerequisite: Consent of instructor is required. (2 lecture hours)

## PTA Pathophysiology

PHYTA 1107 - 2 Credits

Pathophysiology includes the study of diseases and disorders commonly seen in physical therapy practice. An overview of etiology, manifestations and treatment of significant diseases with emphasis on musculoskeletal, nervous and cardiopulmonary systems. Prerequisite: Admission to Physical Therapist Assistant program or consent of instructor (2 lecture hours)

## Basic Health Care Skills and Principles

PHYTA 1109 - 3 Credits

Instruction in basic health care skills used in physical therapy including practice in wheelchair management, body mechanics, transfers, gait training, first aid skills. Study and practical application of basic massage techniques and their variations. Includes identification of anatomical structures, therapeutic intervention using soft tissue manipulation, stretches, joint range of motion, postural drainage, and chest physical therapy techniques. Prerequisite: Admission to Physical Therapist Assistant program or consent of instructor (2 lecture hours, 2 lab hours)

## PTA Documentation

PHYTA 1110 - 1.5 Credits

Observation, interviewing and medical note-writing techniques. Subject matter to include various assessment, treatment plan, progress note, and discharge summary formats. Emphasis on writing style, reimbursement guidelines and legal aspects of note writing. Prerequisite: Admission to Physical Therapist Assistant program

or consent of instructor (1.5 lecture hours)

## PTA Kinesiology I

PHYTA 1111 - 2 Credits

The study of human movement utilizing principles of biomechanics, musculoskeletal anatomy and neuromuscular physiology. Analysis of human movement performed through the application of biomechanical principles including but not limited to force, resistance, osteokinematics, arthrokinematics and planes of motion. Emphasis on basic biomechanics, the articular system, the skeletal system, the muscular system, the nervous system, the shoulder girdle and the shoulder joint. Prerequisite: Admission to Physical Therapist Assistant program or consent of instructor (2 lecture hours)

## PTA Kinesiology II

PHYTA 1112 - 3 Credits

Continuation of application of biomechanical principles and analysis of human movement. Explores in detail the relationship of these principles to the elbow, forearm, wrist, hand, lower extremity, head,

# Physics

## Physics

### PHYSI 1100 - 4 Credits

Conceptual study of laws of motion, forces, energy and momentum, properties and states of matter, heat and thermodynamics, wave motion, sound, light, electricity and magnetism, and atomic and nuclear physics. Prerequisite: Mathematics 0481 (or college equivalent) with a grade of C or better or qualifying score on the mathematics placement test or a qualifying A.C.T. math score. Course requires Reading Placement Test Score-Category One (3 lecture hours, 3 lab hours)

## Lab Microprocessors and Microcontrollers

### PHYSI 1115 - 1 Credits

Basic programming of microprocessors and microcontrollers that may be used in physics. Lab format with hands-on projects. Prerequisite: Consent of instructor is required. (2 lab hours)

## Physics and Society

### PHYSI 1150 - 3 Credits

Study of applications of physics to society. This may specifically include the study

of energy, thermodynamics, electrical power generation, electric circuits, nuclear power, nuclear weapons and modern particle physics. Prerequisite: Mathematics 0481 with a grade of C or better or a qualifying score on the mathematics placement test (3 lecture hours)

## Applications of Physics in Society

### PHYSI 1152 - 3 Credits

Study of applications of physics to society. Includes the study of energy, thermodynamics, electrical power generation, electric circuits, nuclear power, nuclear weapons, and modern particle physics. Lab component included. Students receive credit for either Physics 1150 or 1152. Prerequisite: Mathematics 0481 with a grade of C or better or a qualifying score on the mathematics placement test (3 lecture hours, 3 lab hours)

## Technical Physics I

### PHYSI 1161 - 4 Credits

Conceptual and algebra-based study of classical mechanics, electricity and magnetism including laws of motions, forces, momentum, work, energy, rotational motion, electric charges,

electric currents, circuits, magnetism, magnetic effects and electromagnetic induction. Emphasis is on physical concepts as applied to industrial/technical fields through completion of team projects. Prerequisite: Mathematics 0481 with a grade of C or better or equivalent and Mathematics 1115 or Mathematics 1432 with a grade of C or better or equivalent or consent of instructor (3 lecture hours, 3 lab hours)

## Technical Physics II

### PHYSI 1162 - 4 Credits

Conceptual and algebra-based study of matter properties, temperature and heat, ideal gases, wave motion, sound, light, AC electricity, and select topics of modern physics. Emphasis is on physical concepts as applied to industrial/technical fields in a series of team projects. Prerequisite: Physics 1161 with a grade of C or better or equivalent (3 lecture hours, 3 lab hours)

## General Physics I

### PHYSI 1201 - 5 Credits

Algebra and trigonometry-based study of classical linear and rotational kinematics and

## Political Science

### Introduction to Political Science

POLS 1100 - 3 Credits

An introduction to the study of political behavior, processes and institutions. Course includes a discussion and comparison of political ideas, theories, systems and policies. Focus on analysis of political problems on a national and global level, as well as a definition of central concepts. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours)

### American Politics

POLS 1101 - 3 Credits

Analysis of the dynamics and processes of the evolving American constitutional democracy: its origins, structure and problems. Areas of study include an in-depth discussion of the U.S. Constitution, federalism, civil liberties, interest groups, political parties, campaigns, elections, mass media, Congress, the courts and the presidency. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours)

### Modern Political Ideologies

POLS 1160 - 3 Credits

Introduction to major political philosophies and ideologies from John Locke to present-day political ideas. Topics may include Communism, Fascism, Liberalism, Conservatism, Utilitarianism, Capitalism, post-modernism, social contract theory and Libertarianism. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours)

### Special Project

POLS 1800 - 1-3 Credits

Special project courses cover topics not otherwise covered by general education courses and other courses in the catalog for the discipline. These courses require direct experience and focused reflection in an in-depth study of a specific discipline topic and/or the critical analysis of contemporary issues in the discipline. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent

(to be determined by the disciplines). The experiential component may include field studies, interdisciplinary learning, and/or the practical application of discipline-related concepts, theories, principles and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.)

### Selected Topics I

POLS 1820 - 3 Credits

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college Class Schedule. This course may be taken four times for credit as long as different topics are selected. (3 lecture hours)

### Selected Topics II

POLS 1821 - 3 Credits

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college Class Schedule. This course may be taken four times for credit as long as different topics are selected. (2 lecture hours, 2 lab hours)

## Selected Topics III

POLS 1822 - 3 Credits

Introductory exploration and analysis of selected topics with

a specific theme indicated by course title listed in college Class Schedule. This course may be taken four times for

credit as long as different topics are selected. (1 lecture hour, 4 lab hours)

## Practical Nursing

### Practical Nursing Concepts and Skills I

NURSP 1101 - 10 Credits

Fundamental concepts and skills used by the Practical Nurse when caring for adult and elderly patients with normal and common health problems requiring medical/surgical interventions in a variety of health care settings. Application of the nursing process for health promotion and maintenance, disease prevention, and supporting a dignified death. Skills and techniques developed and demonstrated in nursing skills laboratory and clinical setting. Includes the administration of medications and intravenous therapy in the clinical setting. Prerequisite: Admission to the Practical Nursing Program and Psychology 2237 with a grade of C or better or equivalent (4 lecture hours, 16 lab hours)

### Pharmacology for the Practical Nurse

NURSP 1102 - 4 Credits

Concepts and skills related to the role of the Practical Nurse in the administration of

medications and intravenous therapy to patients across the life span. Includes content about medications necessary for safe and effective patient care. Emphasis is placed on special considerations for the geriatric patient. Prerequisite: Admission into the Practical Nursing Program and Psychology 2237 with a grade of C or better or equivalent (3 lecture hours, 2 lab hours)

### Practical Nursing Concepts and Skills II

NURSP 1103 - 5 Credits

Concepts and skills required of the Practical Nurse when caring for adults and elderly patients requiring mental health interventions and for the childbearing family and children in a variety of health care settings. Application of the nursing process for health promotion and maintenance, and disease prevention. Skills and techniques developed and demonstrated in the clinical setting. Includes administration of medications and intravenous therapy. Prerequisite: Admission to the Practical Nursing Program

and Practical Nursing 1101 and Practical Nursing 1102 with a grade of C or better, or equivalent (3 lecture hours, 6 lab hours)

### Practical Nursing Concepts and Skills 3

NURSP 1104 - 7 Credits

Advanced concepts and skills involved in the role of the Practical Nurse when caring for patients across the lifespan with normal and common health care problems in a variety of health care settings. Skills and techniques developed and demonstrated in the nursing skills laboratory and clinical setting. Includes the administration of medications and intravenous therapy in the clinical setting. Prerequisite: Admission into the Practical Nursing Program and Practical Nursing 1103 with a grade of C or better, or equivalent and concurrent enrollment in Practical Nursing 1105 and Practical Nursing 1106 (4 lecture hours, 8 lab hours)

## Practical Nurse Role Transition

NURSP 1105 - 5 Credits

Integration of all concepts and skills taught in the previous nursing courses looking at more complex patient situations and nursing care. Skills and techniques are

perfected in the clinical setting. Includes the administration of medications and intravenous therapy. Issues related to transition from student to practicing nurse. Includes a review for National Council Licensure Examination - Practical Nurse (NCLEX-PN) and strategies for success.

Prerequisite: Admission into the Practical Nursing Program and Practical Nursing 1103 with a grade of C or better, or equivalent and concurrent enrollment in Practical Nursing 1104 and Practical Nursing 1106 (2 lecture hours, 9 lab hours)

## Psychology

### Personal Biofeedback & Stress Management

PSYCH 0485 - 1 Credits

An introduction to behavioral, cognitive and physiological correlates of stress and stress management including an individualized practicum in thermal and surface electromyography biofeedback. This course fulfills BCIA certification requirements for 10 hours of personal biofeedback training, as well as providing for internships in direct clinical biofeedback with clients/patients. (0.5 lecture hour, 1 lab hour)

the biology of behavior, sensation and perception, stress and adjustment, learning, memory, cognition, motivation, emotion, life-span development of behavior, personality, abnormal behavior and its therapies, social behavior and individual differences. Course requires Reading Placement Test Score-Category One (3 lecture hours)

A survey of the theories of personality as they relate to dealing effectively with the adjustive demands of everyday life. The course includes coverage of the dynamics of stress and coping, interpersonal relationships including ethnic, racial and gender issues, and approaches to personal growth. Not IAI approved for psychology major credit. (3 lecture hours)

### General Psychology

PSYCH 1100 - 3 Credits

A survey of the study of behavior and mental processes with emphasis on the scientific nature of contemporary psychological investigation. Topics discussed included research methods,

### Human Sexuality

PSYCH 1140 - 3 Credits

An examination of human sexuality from a variety of psychosocial perspectives, with an emphasis on biological, psychological and cultural aspects. Prerequisite: Psychology 1100 (3 lecture hours)

### Adjustment

PSYCH 1150 - 3 Credits

### Introduction to Behavioral Research

PSYCH 1180 - 4 Credits

An introduction to descriptive and experimental designs used in the study of behavior. Course content emphasizes methodology, procedures, ethics in research, psychological measurement, basic data analysis and research report writing. Prerequisite: Psychology 1100 (3 lecture hours, 2 lab hours)



## Special Project

PSYCH 1800 - 1-3 Credits

Special project courses cover topics not otherwise covered by general education courses and other courses in the Catalog for the discipline.

These courses require direct experience and focused reflection in an in-depth study of a specific discipline topic and/or the critical analysis of

contemporary issues in the discipline. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent (to be determined by the disciplines). This experiential

component may include field studies, interdisciplinary learning, and/or the practical application of discipline-related concepts, theories, principles and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.)

## Radiation Therapy

### Princ & Practice of Radiation Therapy I

RATH 2301 - 4 Credits

Provides an overview of cancer and the specialty of radiation therapy. The medical, biological and pathological aspects as well as the physical and technical aspects are discussed.

Roles and responsibilities of the radiation therapist, the treatment prescription, the documentation of treatment parameters and delivery are also discussed. Prerequisite: Admission to Radiation Therapy program or consent of instructor (4 lecture hours)

The epidemiology, etiology, detection, diagnosis, patient condition, treatment and prognosis of neoplastic disease are presented, discussed and evaluated in relationship to histology, anatomical site and patterns of spread. The radiation therapist's responsibility in the management of neoplastic disease is examined and linked to the skills required to analyze complex issues and make informed decisions. Prerequisite: Admission to Radiation Therapy program and Radiation Therapy 2301, 2321, and 2331 with a grade of C or better or equivalent or consent of instructor (4 lecture hours)

Establishes factors that influence and govern clinical planning of patient treatment. Encompassed are isodose descriptions, patient contouring, radiobiologic considerations, dosimetric calculations, compensation and clinical application of treatment beams. Optimal treatment planning is emphasized along with particle beams. Stereotactic and emerging technologies are presented. Prerequisite: Radiation Therapy 2302, 2311, 2322 and 2332 with a grade of C or better or equivalent or consent of instructor (4 lecture hours)

### Princ & Practice of Radiation Therapy II

RATH 2302 - 4 Credits

Examines the management of neoplastic disease from a multidisciplinary perspective.

### Princ & Practice Radiation Therapy III

RATH 2303 - 4 Credits

### Radiation Therapy Physics

RATH 2310 - 3 Credits

Establishes a basic knowledge of physics necessary to develop an understanding of radiation used in the clinical

## Real Estate

### Real Estate Broker Pre-License Topics

REALE 1130 - 5 Credits

Introduction to real estate topics including license law, real property, agency, seller and buyer relationships, state and federal laws, marketing and advertising, market analysis and appraisal, financing, contracts, employment agreements, and career paths. A required course to take the Illinois Real Estate Broker License Examination. (5 lecture hours)

### Broker Pre-License Applied Principles

REALE 1131 - 1 Credits

Application of real estate broker pre-license topics to the practice of real estate brokerage. Includes situational and case studies, role playing, and demonstration of real estate activities. A required course to take the Illinois Real Estate Broker License Examination. Prerequisite: Real Estate 1130 with a grade of C or better, or equivalent or concurrent enrollment in Real Estate 1130 (1 lecture hour)

### Real Estate Broker Post-License Topics

REALE 1134 - 1 Credits

Study of real estate topics including license law, state and federal laws, agency and real estate transactions. A required course to maintain an Illinois Real Estate Broker License. Prerequisite: An Illinois Real Estate Broker License. (1 lecture hour)

### Broker Post-License Applied Practices

REALE 1135 - 1 Credits

Application of real estate broker post-license topics to the practice of real estate brokerage. Includes situational and case studies, role playing, and demonstration of real estate activities. A required course to maintain an Illinois Real Estate Broker License. Prerequisite: Real Estate 1134 with a grade of C or better, or equivalent or concurrent enrollment in Real Estate 1134. An Illinois Real Estate Broker License. (1 lecture hour)

### Managing Broker Pre-License Topics

REALE 1138 - 2 Credits

Study of real estate topics including licensing, operations, escrow, and management. A required course to take the Illinois Real Estate Managing Broker License Examination. Prerequisite: An Illinois Real Estate Broker License (2 lecture hours)

### Brkr Prelicense Management & Supervision

REALE 1139 - 1 Credits

Application of real estate managing broker pre-license topics to the practice of real estate brokerage. Includes situational and case studies, dispute resolution simulations, supervision situations, escrow, and discipline case studies. A required course to take the Illinois Real Estate Managing Broker License Examination. Prerequisite: Real Estate 1138 with a grade of C or better, or equivalent or concurrent enrollment in Real Estate 1138. An Illinois Real Estate Broker License (1 lecture hour)

### Basic Appraisal Principles

REALE 1152 - 2 Credits

Introduction to basic appraisal principles including real property concepts and



# Religious Studies

## Introduction to Religion

RELIG 1100 - 3 Credits

This course provides a study of religion by examining representative cultural religious phenomena in a global world. In analyzing commonalities and differences among religious traditions and contexts, students develop an understanding of personal, communal and universal dimensions of religion as characterized through various religious phenomena including philosophical formulations, sacred writings, religious experiences, ethics, rituals and art. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours)

## Intro to the Bible (Old Testament)

RELIG 1110 - 3 Credits

This course offers an overview of the Hebrew Bible (in the Christian tradition known as the Old Testament) and selected writings from the Apocrypha as well as the Dead Sea Scrolls, introducing students to various academic methods of critical and creative ways of studying, analyzing and interpreting these ancient texts. Prerequisite: Course requires Reading Placement

Test Score-Category One (3 lecture hours)

## Intro to the Bible (New Testament)

RELIG 1120 - 3 Credits

This course offers an overview of the Christian Bible (in the Christian tradition known as the New Testament) and selected Early Christian Writings, introducing students to various academic methods of critical study, analysis and interpretation of these ancient texts. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours)

## World Religions

RELIG 1150 - 3 Credits

An introductory investigation of the main ideas from the world's major living religions: including Christianity, Islam, Hinduism, Buddhism, Taoism, Confucianism, Shintoism and primal religions. Credit cannot be given for both Religious Studies 1150 and Philosophy 1150. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours)

## Asian Thought

RELIG 1155 - 3 Credits

Introductory overview of selected philosophical and religious systems of Asia. Emphasizes the conceptual and intellectual foundations of a variety of Asian traditions, and includes consideration of the historical and cultural contexts that shape them. Philosophy 1100 and/or Religious Studies 1100 is strongly recommended. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours)

## Selected Topics I

RELIG 1820 - 1-3 Credits

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college course schedule. This course may be taken four times for credit as long as different topics are selected. (1 to 3 lecture hours)

## Independent Study

RELIG 1840 - 1-4 Credits

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline

## Respiratory Care

### Basic Respiratory Care

RESP 1101 - 3 Credits

Role of the Respiratory Care practitioner. Basic management and maintenance of common Respiratory Care equipment to include applied therapeutic modalities. Major emphasis on oxygen and aerosol administration, arterial blood gas procedures, and pharmacologic administration. Prerequisite: Admission to the Respiratory Care Program or consent of instructor (2 lecture hours, 3 lab hours)

### Intermediate Respiratory Care

RESP 1102 - 3 Credits

Intermediate procedures for the Respiratory Care practitioner. Theory and practice for cardiac and pulmonary pathology, positive pressure breathing, chest physical therapy, airway care and introductory mechanical ventilation. Prerequisite: Admission to the Respiratory Care Program and Respiratory Care 1101 or consent of instructor (2 lecture hours, 3 lab hours)

### Advanced Respiratory Care

RESP 1103 - 3 Credits

Advanced study in respiratory intensive care principles. Theory and practice to include management of life-support systems as applied in the emergency and intensive care units. Adult volume and pressure ventilation, monitoring and non-invasive positive pressure procedures. Prerequisite: Admission to the Respiratory Care Program and Respiratory Care 1102 or consent of instructor (2 lecture hours, 3 lab hours)

### Respiratory Assessment and Procedures

RESP 1105 - 4 Credits

Respiratory Care assessment to include vital sign and breath sound monitoring, oxygen monitoring and administration, universal/standard precautions and isolation procedures, patient and equipment safety standards, patient charting and communication, cardiopulmonary resuscitation (CPR), and concepts in transcultural patient care. Prerequisite: Admission to the Respiratory Care Program or consent of instructor (3 lecture hours, 3 lab hours)

### Clinical Practice I

RESP 1111 - 4 Credits

Clinical practice in the application of oxygen administration, aerosol and humidity therapy, incentive spirometry, chest physiotherapy, pharmacologic agents, therapeutic evaluation, arterial puncture, and communication skills with patient and staff. Prerequisite: Admission to the Respiratory Care Program and Respiratory Care 1101, Respiratory Care 1120 and Respiratory Care 1121 or consent of instructor

### Clinical Practice II

RESP 1112 - 4 Credits

Clinical practice in the application of non-invasive positive pressure ventilation including continuous and bi-level airway pressure therapy, airway care procedures, and the application of cardiopulmonary life-support. Previous clinical skill procedures included. Prerequisite: Admission to the Respiratory Care Program and Respiratory Care 1111 or equivalent or consent of instructor

## Respiratory Care Clinical Practice

RESP 1113 - 3 Credits

Clinical practice of intensive care procedures within hospital

emergency rooms, surgical intensive, cardiac care, and respiratory intensive care units. Life support systems, ventilator initiation, weaning, diagnostic monitoring

and spirometry included. Prerequisite: Admission to the Respiratory Care Program and Respiratory Care 1112 or equivalent or consent of instructor

## Russian

### Elementary Russian I

RUSSI 1101 - 4 Credits

Develops the ability to speak, understand, read and write Russian in a cultural context. For the beginning student. (4 lecture hours)

are selected. Prerequisite: Consent of instructor is required (1 to 4 lecture hours)

### Internship (Career & Technical Ed)/Coop Ed/ Internship Occup

RUSSI 2860 - 1-4 Credits

Course requires participation in Career and Technical Education work experience with onsite supervision. Internship learning objectives are developed by student and faculty member, with approval of employer, to provide appropriate work-based learning experiences. Credit is earned by working a minimum of 75 clock hours per semester credit hour, up to a maximum of four credits. Prerequisite: 2.0 cumulative grade point average; 12 semester credits earned in a related field of study; students work with Career Services staff to obtain approval of the internship by the Associate Dean from the academic discipline where the student is planning to earn credit.

### Elementary Russian II

RUSSI 1102 - 4 Credits

Continues to develop the ability to speak, understand, read and write Russian in a cultural context. For students who have successfully completed Russian 1101 or equivalent or one year of high school Russian. (4 lecture hours)

### Intermediate Russian I

RUSSI 2201 - 4 Credits

Develops the ability to read and discuss modern texts: conversation, composition, grammar, and a brief introduction to Russian literary history. For students who have successfully completed Russian 1102 or equivalent or two years of high school Russian. (4 lecture hours)

### Intermediate Russian II

RUSSI 2202 - 4 Credits

Further develops the ability to read and discuss modern texts: conversation, composition, grammar, and an introduction to Russian literary history. For students who have successfully completed Russian 2201 or equivalent or three years of high school Russian. (4 lecture hours)

### Independent Study

RUSSI 1840 - 1-4 Credits

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. This course may be taken four times for credit as long as different topics

### Internship Advanced (Career & Tech Ed)

RUSSI 2865 - 1-4 Credits

## Social Science

### Introduction to Social Science

SOCIA 1100 - 3 Credits

This is an interdisciplinary course combining the perspectives of two or more of the social and behavioral sciences (anthropology, economics, geography, history, political science, psychology and sociology) on the central issues in social science studies. This course explores the relationship between the social and behavioral sciences being studied. It reviews the application of the scientific method, compares theory and concepts, and reviews the different perspectives of the discipline being studied. This course is broad in nature and scope. It provides the basis for further study in the various social and behavioral sciences. (3 lecture hours)

### Introduction to Globalization

SOCIA 1110 - 3 Credits

Introduction to the cultural, economic, political and social dimensions of globalization through major social-scientific theories. Addresses historical context in which globalization emerged, the rise of global institutions, the impact on labor and financial markets, the new

social movements, the rise of global terrorism, and the aggravation of global poverty. The course also addresses alternative forms of social organizations and the question of development. (3 lecture hours)

### Special Project

SOCIA 1800 - 1-3 Credits

Social science course integrates two or more disciplines in the social and behavioral sciences. Special project social science course covers topics not otherwise covered by general education and social behavioral sciences individual courses and other courses in the Catalog for the disciplines. These courses require direct experience and focused reflection in an in-depth study of a specific discipline topic and/or the critical analysis of contemporary issues in the discipline. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent (to be determined by the disciplines). This experiential component may include field

studies, interdisciplinary learning, and/or the practical application of discipline-related concepts, theories, principles and methods with a specific focus. All courses require an orientation to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.)

### Selected Topics I

SOCIA 1820 - 3 Credits

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college Class Schedule. This course may be taken four times for credit as long as different topics are selected. (3 lecture hours)

### Selected Topics II

SOCIA 1821 - 3 Credits

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college Class Schedule. This course may be taken four times for credit as long as different topics are selected. (2 lecture hours, 2 lab hours)

## Selected Topics III

SOCIA 1822 - 3 Credits

Introductory exploration and analysis of selected topics with

a specific theme indicated by course title listed in college Class Schedule. This course may be taken four times for

credit as long as different topics are selected. (1 lecture hour, 4 lab hours)

# Sociology

## Introduction to Sociology

SOCIO 1100 - 3 Credits

Students explore the concepts and theories necessary to systematic understanding of our social worlds. Topics may include considering sociology as science, the nature of large- and small-scale groups, social stratification, historical eras and social change, and race, ethnic and gender relations. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours)

socialization and core social institutions, including marriage and family, education, religion, the economy and politics. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours)

(to be determined by the disciplines). This experiential component may include field studies, interdisciplinary learning, and/or the practical application of discipline-related concepts, theories, principles and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.)

## Special Project

SOCIO 1800 - 1-4 Credits

Social science courses integrate two or more disciplines in the social and behavioral sciences. Special project social science courses cover topics not otherwise covered by general education courses and other courses in the Catalog for the discipline. These courses require direct experience and focused reflection in an in-depth study of a specific discipline topic and/or the critical analysis of contemporary issues in the discipline. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent

## Selected Topics I

SOCIO 1820 - 1-3 Credits

Introductory exploration and analysis of selected sociology topics with a specific theme indicated by course title listed in college course schedule. This course may be taken four times for credit as long as different topics are selected. (1 to 3 lecture hours)

## Sociology of Sex, Gender and Power

SOCIO 1120 - 3 Credits

Examines the difference between behavior based on biology and behavior based on what society says is appropriate in order to be masculine or feminine. Examines the question of what forces in society are most influential in determining the "place" of men and women with special emphasis on power. Examines how this influence works through the process of

## Independent Study

SOCIO 1840 - 1-4 Credits

Exploration and analysis of topics within the discipline to meet individual student-defined course description,



## Spanish

### Civilization and Culture of Spain

SPANI 1100 - 3 Credits

Introduction in English to the culture, geography, history, economics, political institutions, psychology, literature, music, art and architecture of Spain. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours)

### Elementary Spanish I

SPANI 1101 - 4 Credits

Develops the ability to speak, understand, read and write Spanish in a cultural context. For the beginning student. (4 lecture hours)

### Elementary Spanish II

SPANI 1102 - 4 Credits

Continues the development of the ability to speak, understand, read, and write Spanish in a cultural context. For students who have successfully completed Spanish 1101 or equivalent or one year of high school Spanish. (4 lecture hours)

### Latin American Culture & Civilization

SPANI 1110 - 3 Credits

Introduction to the culture, geography, history, economics, political institutions, sociology, literature, music, and arts of present-day Latin America. Conducted in English. (3 lecture hours)

### Independent Study

SPANI 1840 - 1-4 Credits

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. This course may be taken four times for credit as long as different topics are selected. Prerequisite: Consent of instructor is required (1 to 4 lecture hours)

### Intermediate Spanish I

SPANI 2201 - 4 Credits

Continues to develop the ability to speak, understand, read, and write Spanish in a cultural context. Includes reading and discussion of modern texts, conversation, composition, grammar

review, and cultural activities. For students who have successfully completed Spanish 1102 or equivalent or two years of high school Spanish. (4 lecture hours)

### Intermediate Spanish II

SPANI 2202 - 4 Credits

Continues to develop the ability to speak, understand, read, and write Spanish in a cultural context. Includes reading and discussion of modern texts, conversation, composition, grammar review, and cultural activities. For students who have successfully completed Spanish 2201 or equivalent or three years of high school Spanish. (4 lecture hours)

### Spanish for Heritage Speakers I

SPANI 2206 - 4 Credits

Develops understanding, speaking, reading, and writing skills in Spanish for students who comprehend spoken Spanish and may have some degree of skill in speaking, reading, and writing ability. Focuses on reading development, orthography, lexical expansion, formal grammar, and facility in writing and composition. Fosters

# Speech Communication

## Prep College Speech-Non-Native Speakers

SPEEC 0495 - 3 Credits

This course is designed primarily to prepare students, whose first language is not English, for college-level speech courses. Introductory speaking exercises and speeches are included in the course work. This course is intended for students who are high school graduates and whose spoken English is most likely comprehensible to native speakers. May be repeated up to nine total credit hours. Prerequisite: English as a Second Language 0958 or equivalent, or consent of instructor recommended. (3 lecture hours)

## Fundamentals of Speech Communication

SPEEC 1100 - 3 Credits

A variety of experiences that develop basic concepts of the oral communication process. The class includes communication theory as well as speech preparation and delivery. Highly recommended: Prior to enrollment, student should have A) a satisfactory score, as determined by the English faculty, on an English Composition entrance test, and B) evidence of having

met the Reading Competency Requirement. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours)

## Oral Interpretation

SPEEC 1110 - 3 Credits

Basic techniques of the oral performance of literature with emphasis on content analysis and performance. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours)

## Small-Group Communication

SPEEC 1120 - 3 Credits

Study of leadership, group process and interpersonal relations in the small group, conference and public forum. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours)

## Public Relations

SPEEC 1140 - 3 Credits

This course is designed to introduce students to the public relations field. Covers topics from the nature of the work done by public relations practitioners to the description

and use of the tools involved. Also, the various functions of public relations are examined including the overall process of research, planning and decision making, action and communication, and evaluation. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours)

## Introduction to Business Communication

SPEEC 1150 - 3 Credits

This course is designed to help students understand communication behaviors and concepts in order to develop effective communication skills in the business environment. It covers topics related to communication between employees and their supervisors, communication within work groups, and public communication. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours)

## Interpersonal Communication

SPEEC 1160 - 3 Credits

Study of basic principles and theories of interpersonal communication and their application in attraction,



# Speech-Language Pathology Assistant

## Intro to Speech Language Pathology

SLPA 1101 - 4 Credits

Overview of normal and disordered communication. Explores speech, language, cognitive development and disorders, and hearing disorders across the age continuum according to etiology, clinical manifestations and intervention. Includes anatomy and physiology of speech, language and hearing. Addresses the psychosocial impact of communicative disorders on clients and their families. Includes observations of speech language therapy in local therapy settings. (4 lecture hours)

## Phonetics

SLPA 1105 - 3 Credits

Overview of the science of phonetics. Explores the anatomy and physiology of the speech mechanism and the mechanics of speech sound production. Includes an introduction to International Phonetic Alphabet (IPA) and commonly used diacritics with an emphasis on transcription in clinical settings. Prerequisite: Prior completion or concurrent enrollment in Speech-Language Pathology Assistant

1101 or consent of instructor (3 lecture hours)

## Speech Disorders & Intervention I

SLPA 1106 - 4 Credits

Overview of the etiologies and characteristics of a variety of speech disorders across the lifespan with an emphasis on intervention strategies. Includes an exploration of motor speech disorders, tracheostomies, laryngectomies, organic and functional voice disorders, orofacial anomalies and fluency disorders. Includes a review of neuroanatomy and physiology as it pertains to motor speech disorders and anatomy and physiology of the speech mechanism. Prerequisite: Admission to program and Speech-Language Pathology Assistant 1101 and Speech-Language Pathology Assistant 1105 or consent of instructor (4 lecture hours)

## Speech Disorders & Intervention II

SLPA 1107 - 2 Credits

Examination of the potential etiologies and characteristics of articulation and phonological disorders with an emphasis

on intervention strategies. Explores sequence and timing of speech sound acquisition. Addresses differences between articulation and phonological disorders in terms of nature and treatment. Includes an introduction to oral motor exercises. Prerequisite: Speech-Language Pathology Assistant 1101 and Speech-Language Pathology Assistant 1105 or consent of instructor (2 lecture hours)

## Language Development

SLPA 1109 - 3 Credits

Exploration of the components of language and theories of language development. Emphasis placed on the typical sequence and timing of acquisition of language skills from infancy to adolescence. Includes typical changes in language during various stages of adulthood. Addresses issues of dialects and bilingualism. Explores the impact of environment and play on language development and the use of developmentally appropriate toys to encourage language development. Prerequisite: Speech-Language Pathology Assistant 1101 or consent of instructor (3 lecture hours)

## Language Disorders & Intervention

SLPA 1110 - 4 Credits

Examination of the potential etiologies and characteristics of language disorders across the lifespan with an emphasis on intervention strategies. Addresses delayed/disordered

language development in the pediatric population (infancy through adolescence) as well as aphasia, right hemisphere syndrome, traumatic brain injury, and dementia in the adult population. Includes exploration of language-based learning disabilities

and language enrichment and literacy programs. Includes a review of neuroanatomy and physiology as it pertains to neurogenic language disorders. Prerequisite: Speech-Language Pathology Assistant 1109 or consent of instructor (4 lecture hours)

## Surgical Technology

### Surgical Technology Concepts I

SURGT 1101 - 15 Credits

Exploration of perioperative fundamentals including: surgical sciences, patient care concepts, surgical technology responsibilities, and surgical intervention including application and practice. The concepts of surgical terminology and pharmacology/anesthesia will also be included. Anatomy and Physiology along with Medical Terminology are strongly recommended. Prerequisites: Admission to the Surgical Technology program is required (11 lecture hours, 9 lab hours)

### Surgical Technology Concepts II

SURGT 1102 - 8 Credits

Continuation of Surgical Technology Concepts I with emphasis on acquiring

proficiency in the clinical setting. The student will continue to gain expanded knowledge of areas of the perioperative environment. Prerequisite: Admission to the Surgical Technology program and Surgical Technology 1101 with a grade of C or better or equivalent (7 lecture hours, 3 lab hours)

### Surgical Technology Concepts III

SURGT 1103 - 14 Credits

Continuation of Surgical Technology Concepts II with emphasis on acquiring continued proficiency in the clinical setting. This course includes advanced theory into surgical technology and surgical practices. Prerequisite: Admission to the Surgical Technology program and Surgical Technology 1102 with a grade of C or better (13 lecture hours, 1 lab hour)

### Central Processing Distribution Technician

SURGT 1111 - 4 Credits

This is a one semester certificate program that provides the student with the basic fundamentals of central processing, supplies, services, and distribution of hospital instrumentation, supplies, and equipment. This course will provide the student with didactic instruction and clinical practice in aseptic techniques, patient care concepts, and theories and practices of central services departments. Students who successfully complete the program will be eligible to sit for the International Association of Healthcare Central Service Material Management (IAHCSCMM) National Certifying Examination. Prerequisite: Students must complete a background check, provide proof of health insurance, and complete mandatory health requirements including a

## Theater

### Theater Appreciation

THEAT 1100 - 3 Credits

Enhances appreciation and understanding of the theatrical experience: reading and analysis of scripts, theater attendance followed by exercises in written and oral critiques, discussion of the elements of play production and the business of theater. Intended for the general student to enhance his/her ability to become an appreciative and discerning theater audience member. No previous theater experience is required. Play attendance required. Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours)

### Improviseational Acting

THEAT 1105 - 3 Credits

Emphasizes helping the beginning actor and non-theater student create believable characters using subtext through concentration, imagination and observation in non-scripted scenes. Exercises provide a foundation for using subtext, playing in the moment, and creating truthful relationships in scripted and non-scripted scenes, and the use of the body and voice as communicative agents.

Play attendance required.

Prerequisite: Course requires Reading Placement Test Score-Category One (3 lecture hours)

### Voice and Diction

THEAT 1108 - 2 Credits

Studies of voice sound production. Designed to teach actors relaxation, breathing, and an understanding of the actor's vocal life and demands. No previous theater experience is required. Play attendance required. Prerequisite: Course requires Reading Placement Test Score-Category One (2 lecture hours)

### Stage Movement

THEAT 1109 - 2 Credits

Introduces principles and techniques of theatrical stage movement. Designed to help actors make their bodies more flexible and efficient instruments of expression. No previous theater experience is required. Play attendance required. Course requires Reading Placement Test Score-Category One (2 lecture hours)

### Stage Combat - Unarmed

THEAT 1110 - 3 Credits

Introduces basic unarmed violence for the stage focusing on performance and execution of safe, but real, techniques. Prerequisite: At least one course in the discipline or consent of the instructor (3 lecture hours)

### Acting I

THEAT 1111 - 3 Credits

Introduces actors to the principles and techniques of creating believable characters through action, improvisation, analysis, movement, business, physicalization, vocal control, audition workshop, scene study and interpretation. Major contemporary playwrights used for scene study. No previous theater experience is required. Play attendance required. Course requires Reading Placement Test Score-Category One (3 lecture hours)

### Acting II

THEAT 1112 - 3 Credits

Continues development of skills acquired in Acting I. Helps students develop believable characters

## Vocational Skills

### Employment Skills I

VOCSK 0611 - 2 Credits

Introduction to pre-employment skills to prepare for job placement. Includes resume writing, job interviewing, and completing job applications.

This course can only be taken on a pass/fail basis. This course may be taken four times for credit. Prerequisite: Permission of the Vocational Skills program coordinator is required. (2 lecture hours)

### Employment Skills II

VOCSK 0612 - 2 Credits

Introduction to on-the-job skills. Includes understanding standards of behavior; communication with employers, co-workers and public; and time management. This course can only be taken on a pass/fail basis. This course may be taken four times for credit. Prerequisite: Permission of the Vocational Skills program coordinator is required. (2 lecture hours)

### Keyboard Skills

VOCSK 0620 - 2 Credits

Introduction to the computer keyboard and typing skills. Includes how to touch type alphabetic and special

characters. This course can only be taken on a pass/fail basis. This course may be taken four times for credit. Prerequisite: Permission of the Vocational Skills coordinator is required. (2 lecture hours)

### Computer Skills I

VOCSK 0621 - 2 Credits

Introduction to computer technology and word processing. Includes the basic parts of a computer, creating and editing documents for business, and using the Internet and e-mail. This course can only be taken on a pass/fail basis. This course may be taken four times for credit. Prerequisite: Permission of the Vocational Skills coordinator is required and Vocational Skills 0620 or keyboard experience (2 lecture hours)

### Computer Skills II

VOCSK 0622 - 2 Credits

Continuation of Vocational Skills 0621. Includes word processing, text editing, margins, text alignment, tabs, bullet lists, envelopes and labels. This course can only be taken on a pass/fail basis. This course may be taken four times for credit. Prerequisite: Permission of the Vocational

Skills coordinator is required and Vocational Skills 0621 (2 lecture hours)

### General Office Skills I

VOCSK 0625 - 2 Credits

Introduction to basic office tasks and operation of office machines. Includes filing, mailing, copying, faxing, and time management skills. This course can only be taken on a pass/fail basis. This course may be taken four times for credit. Prerequisite: Permission of the Vocational Skills Coordinators is required. (2 lecture hours)

### Automotive Skills I

VOCSK 0631 - 2 Credits

Introduction to entry-level skills in automotive repair, maintenance and detailing. Includes classroom and hands-on training in basic car operations, tools and safety; oil and filter changes; basic maintenance of fluids, belts and tires; and interior and exterior cleaning. This course can only be taken on a pass/fail basis. This course may be taken four times for credit. Prerequisite: Permission of the Vocational Skills program coordinator is required. (2 lecture hours)

## Food Service Skills I

VOCSK 0641 - 2 Credits

Introduction to the basic skills required for entry-level food service occupations. Includes

demonstration and hands-on learning in basic sanitation, safe food handling, safety issues, basic food preparation, and cooking. This course can only be taken on a pass/fail

basis. This course may be taken four times for credit. Prerequisite: Permission of the Vocational Skills program coordinator is required. (2 lecture hours)

# Welding Technology

## Welding I

WELD 1100 - 3 Credits

Basic electric arc, oxy-fuel, gas metal arc and gas tungsten arc welding processes. Safety procedures required to set up and shut down welding equipment for the various processes. Hands-on experience includes practice with the four welding systems using various thickness materials. Industrial standards and American Welding Society (AWS) standards for quality are discussed. (2 lecture hours, 2 lab hours)

## Oxy-Fuel, Welding, Plasma Cutting and Br

WELD 1112 - 3 Credits

Operation of oxyacetylene welding and cutting equipment and plasma cutting. Students learn to produce quality welds and braze joints in the flat, horizontal, overhead and vertical positions. Also introduces cutting methods of profile, pipe, square and bevel. Prerequisite: Welding Technology 1100 or equivalent (1 lecture hour, 4 lab hours)

## Shielded Arc Welding (SMAW)

WELD 1122 - 3 Credits

Theory and practice in the preparation and welding of steel joints in various positions. Safety, electrode selection, inspection and testing. Skill is developed in producing different position butt and fillet welds. American Welding Society testing is stressed Prerequisite: Welding Technology 1100 or equivalent (1 lecture hour, 4 lab hours)

## Gas Metal Arc (MIG)

WELD 1132 - 3 Credits

Solid steel and cored wire welding on common industrial joints. Travel direction, weave motion, bead sequence and gun angles for out-of-position welding on steel are emphasized. Setup and operation of MIG welder for flux-core, stainless steel and aluminum welding under varying conditions. Prerequisite: Welding Technology 1100 or equivalent (1 lecture hour, 4 lab hours)

## Gas Tungsten Arc (TIG)

WELD 1142 - 3 Credits

Theory and practice of welding in all positions and on various joint configurations using the Gas Tungsten Arc Welding (GTAW or TIG) welding process on carbon steel, stainless steel and aluminum. This course may be taken four times for credit. Prerequisite: Welding Technology 1100 or equivalent (1 lecture hour, 4 lab hours)

## Pipe Welding and Fabrication

WELD 1151 - 3 Credits

Covers safety inspections, minor repairs, operating parameters, and operation of shielded metal arc welding (SMAW), gas metal arc welding (GMAW), and flux core arc welding (FCAW) equipment in a variety of positions on various materials used in pipe joints. Evaluating and solving complex welding and fabrication problems. This course may be taken four times for credit. Prerequisite: Welding Technology 1100,



# Zoology

## Insects and Humans

ZOOLO 1220 - 3 Credits

Study of insect life to include identification and ecology. Recognition and control of major pests as well as other arthropods such as arachnids, millipedes and centipedes. Relationships of insects to humans in the areas of agriculture, culture, forestry and medicine are explored. (2 lecture hours, 2 lab hours)

## Special Project

ZOOLO 1800 - 1-3 Credits

Special project courses in Zoology cover topics not otherwise covered by general education courses and other courses in the Catalog for the Zoology discipline. These courses require direct experience and focused reflection in an in-depth study of a specific topic and/or the critical analysis of contemporary issues. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent. This experiential component may include field studies, interdisciplinary learning, and/

or the practical application of Zoology concepts, theories, principles, and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.)

## Independent Study

ZOOLO 1840 - 1-4 Credits

Exploration and analysis of topics within Zoology to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. Prerequisite: Consent of instructor is required (1 to 4 lecture hours)

## Comparative Vertebrate Zoology

ZOOLO 2250 - 4 Credits

The classification, anatomy and physiology of vertebrates is presented in a comparative manner. Topics include vertebrate evolution, vertebrate development, and various body systems and their organs. Student dissection of various examples of vertebrates is required. Prerequisite: Biology

1151 and Biology 1152 (3 lecture hours, 3 lab hours)

## Invertebrate Zoology

ZOOLO 2260 - 4 Credits

Study of invertebrate phyla. Topics include invertebrate taxonomy, anatomy, physiology, reproduction, evolution, and the relationships of invertebrate with their environment. Prerequisite: Biology 1151 and Biology 1152 or equivalent (2 lecture hours, 4 lab hours)

## Special Project

ZOOLO 2800 - 1-3 Credits

Special project courses in Zoology cover topics not otherwise covered by general education courses and other courses in the Catalog for the discipline, while building on academic knowledge and skills acquired in introductory-level classes. These courses require direct experience and focused reflection in an in-depth study of a specific topic and/or the critical analysis of contemporary issues. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component

of no less than 30 percent but not to exceed 70 percent. This experiential component may include field studies, interdisciplinary learning, and/or the practical application of more complex zoology concepts, theories, principles and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.) Prerequisite: At least one course in Zoology or consent of instructor

### **Internship (Career & Technical Ed)/Coop Ed/ Internship Occup**

ZOOLO 2860 - 1-4 Credits  
Course requires participation in Career and Technical Education work experience with onsite supervision. Internship learning objectives are developed by student and faculty member, with approval of employer, to provide appropriate work-based learning experiences. Credit is earned by working a minimum of 75 clock hours per semester credit hour, up to a maximum of four credits. Prerequisite: 2.0 cumulative grade point average; 12 semester credits earned in a related field of study; students work with Career Services staff to obtain approval of the

internship by the Associate Dean from the academic discipline where the student is planning to earn credit.

### **Internship Advanced (Career & Tech Ed)**

ZOOLO 2865 - 1-4 Credits  
Continuation of Internship (Career and Technical Education). Course requires participation in Career & Technical Education work experience with onsite supervision. Internship learning objectives are developed by student and faculty member, with approval of employer, to provide appropriate work-based learning experiences. Credit is earned by working a minimum of 75 clock hours per semester credit hour, up to a maximum of four credits. Prerequisite: 2.0 cumulative grade point average; 12 semester credits earned in a related field of study; students work with Career Services staff to obtain approval of the internship by the Associate Dean from the academic discipline where the student is planning to earn credit.

### **Internship (Transfer)**

ZOOLO 2870 - 1-4 Credits  
Course requires participation in work experience with onsite supervision. Internship learning objectives are developed by student and faculty member,

with approval of employer, to provide appropriate work-based learning experiences. Credit is earned by working a minimum of 75 clock hours per semester credit hour, up to a maximum of four credits. Prerequisite: 2.0 cumulative grade point average; 12 semester credits earned in a related field of study; students work with Career Services staff to obtain approval of the internship by the Associate Dean from the academic discipline where the student is planning to earn credit.

### **Internship - Advanced (Transfer)**

ZOOLO 2871 - 1-4 Credits  
Continuation of Internship (Transfer). Course requires participation in work experience with onsite supervision. Internship learning objectives are developed by student and faculty member, with approval of employer, to provide appropriate work-based learning experiences. Credit is earned by working a minimum of 75 clock hours per semester credit hour, up to a maximum of four credits. Prerequisite: 2.0 cumulative grade point average; 12 semester credits earned in a related field of study; students work with Career Services staff to obtain approval of the internship by the Associate Dean from the academic



discipline where the student is planning to earn credit.