
Second Year, Fall Semester

CEM 241, PHL 236, PHY 231, MACRAO social science course

Second Year, Winter Semester

CEM 242, PHY 232, MACRAO humanities course, program-specific course requirement

PHYSICAL THERAPY

Physical therapists provide clients, infants through elderly adults, with services at the preventive, acute and rehabilitative stages directed toward achieving increased functional independence and decreased functional impairment. Physical therapists interact and practice in collaboration with a variety of health professionals.

SUGGESTED COURSE SEQUENCE**First Year, Fall Semester***

BIO 131, CEM 141, ENG 131, MTH 140

First Year, Winter Semester

CEM 142, ENG 132, PHL 236, PSY 140

Second Year, Fall Semester

BIO 253, MTH 133, PHY 231, MACRAO humanities course

Second Year, Winter Semester

BIO 254, PHY 232, PSY 252, MACRAO humanities course

PRE-VETERINARY

Veterinarians play a major role in the health care of pets, livestock, and zoo, sporting, and laboratory animals. Veterinarians also use their skills to protect humans against diseases carried by animals, and conduct clinical research on human and animal health problems.

SUGGESTED COURSE SEQUENCE**First Year, Fall Semester**

BIO 131, CEM 141, ENG 131, MTH 140 or MTH 151

First Year, Winter Semester

BIO 232, CEM 142, ENG 132, MACRAO Social science course

Second Year, Fall Semester

CEM 241, PHY 231, MACRAO Humanities & Social science courses

Second Year, Winter Semester

BIO 220, CEM 242, PHY 232, MACRAO Humanities course



HUMAN SERVICES CAREER PATHWAY

This career pathway includes careers related to economic, political and social systems including education, government, law and law enforcement, early childhood development and education, civil service, education, leisure and recreation, military, religion, personal services and social services. These may include law and legal studies, law enforcement, public administration and child and family services.

DEGREES/CERTIFICATES

- Corrections
- Law Enforcement

CONCENTRATION

The “concentration” process is a building block approach to completing a trade certificate program. Students can choose to complete the concentration depending upon the level of skill and knowledge desired. Students can apply for a concentration upon completion of the required courses.

TRANSFER PROGRAMS IN HUMAN SERVICES PATHWAY

The first two years of college education usually consist of general education courses, introductory courses in a major and/or program of study, and selected electives. Refer to page 37 for additional information on transfer and MACRAO. Academic advisors assist in planning transfer programs, and provide transfer guide sheets indicating courses that meet the requirements of various programs of study at four-year colleges. Sample curricula for a few popular transfer programs are included.

- Criminal Justice/Corrections or Law Enforcement to Siena Heights University
- Psychology
- Social Work
- Pre-Law
- Education

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CORRECTIONS – ASSOCIATE IN APPLIED SCIENCE (CORR.AAS)

Corrections officers are charged with safekeeping any person who has been arrested, are awaiting trial or are in a correctional institution. Officers maintain order within the institution, enforce rules and regulations and often supplement counseling that inmates received from mental health professionals. In addition to being prison/jail guards, corrections officers can work in other related positions, such as juvenile facilities.

Minimum credits:	60
Minimum cumulative GPA:	2.0
Minimum grade in all courses:	2.0
Minimum JCC credits:	12
MACRAO Agreement:	No

GENERAL EDUCATION REQUIREMENTS – (20 credits)

ADO 1: Write clearly, concisely and intelligibly (3 credits)

Take the following:

ENG 131 Writing Experience I

ADO 2: Speak clearly, concisely and intelligibly (3 credits)

Choose one of the following:

COM 231 Communication Fundamentals

COM 240 Interpersonal Communication

ADO 3: Demonstrate computational skills and mathematical reasoning (3-4 credits)

Take the following:

MTH 120 Beginning Algebra or higher

ADO 4: Demonstrate scientific reasoning (4 credits)

Choose one of the following:

BIO 110 Introductory Biology

BIO 131 General Biology

BIO 132 Human Biology

BIO 155 Human Anatomy & Physiology

BIO 220 Microbiology

BIO 253 Human Anatomy and Physiology I

CEM 131 Fundamentals of Chemistry

CEM 141 General Chemistry

GEL 160 Introduction to Geology

NSC 131 Contemporary Science

PHY 131 Conceptual Physics

PHY 151 Astronomy

PHY 231 College Physics I

PHY 251 Modern University Physics I

ADO 5: Understand human behavior and social systems, the principles which govern them and their implications for the present and future (3 credits)

Take the following:

PLS 141 American National Government

ADO 6: Understand aesthetic experience and artistic creativity (3 credits)

Choose one of the following:

ART 111 Art History: Prehistoric to 1400

ART 112 Art History: Renaissance to Present

ENG 210 Introduction to Film

ENG 246 Short Story & Novel

ENG 247 Poetry & Drama

ENG 252 Shakespeare

ENG 254 Children's Literature

ENG 255 American Literature - 19th Century

ENG 256 American Literature - 20th Century

HUM 131 Cultural Connections

MUS 131 Understanding Music

THR 116 Introduction to Theatre

ADO 7: Think critically

Program courses meet this requirement

ADO 8: Make responsible decisions in personal and professional contexts (1-3 credits)

Choose one of the following:

HPF 160 Wellness

HPF 186 Weight Training and Wellness

HPF 277 Stress Management

HPF 283 Managing Stress and Holistic Health

PHL 236 Ethics

ADO 9: Work productively with others, recognizing individual contributions to group success

Program courses meet this requirement

ADO 10: Understand and respect the diversity and interdependence of the world's peoples and cultures

Program courses meet this requirement

CORRECTIONS RELATED REQUIREMENTS – (16 credits)

Take the following:

CIS 101 Introduction to Computer Systems

ENG 232 Technical & Business Writing

PSY 140 Introduction to Psychology

PSY 251 Abnormal Psychology

SOC 231 Principles of Sociology

CORRECTIONS CORE REQUIREMENTS – (15 credits)

Take the following:

CRJ 119* Client Growth & Development

CRJ 120* Human Relations for Corrections

CRJ 121* Introduction to Corrections

CRJ 124* Institution Populations

CRJ 127* Corrections Law

CORRECTIONS ELECTIVES – (9 credits)

Choose nine credits from the following:

CRJ 101 Criminal Law

CRJ 104 Criminal Justice Psychology

CRJ 108 Criminal Justice Fieldwork – Security

CRJ 111 Introduction to Criminal Justice

CRJ 112 Crime & Delinquency

CRJ 117 Criminology

SOC 117 Criminology

CRJ 125 Parole & Probation

CRJ 203 Field Studies

**Recommended for prospective State of Michigan Correctional Officers. Each corrections course must be completed with a 2.0 to meet the requirement of the Michigan Correctional Officers Training Council "Desired" background for students to be successful in particular courses (this is for courses that do not have specific prerequisites, but desired experience or knowledge) includes a willingness to help others, good interpersonal communication, and critical thinking skills. Students cannot start the program during Winter semester and still complete in nine semesters due to prerequisites.*

CORRECTIONS – CERTIFICATE (CORR.CERT)

Offers an opportunity to pursue initial study in the student's area of interest. Credits earned may apply toward an associate degree.

Minimum credits:	34
Minimum cumulative GPA:	2.0
Minimum grade in each course:	2.0
Minimum JCC credits:	12
MACRAO Agreement:	No

GENERAL EDUCATION REQUIREMENTS – (19 credits)

Take the following:

COM 231	Communication Fundamentals
ENG 131	Writing Experience I
ENG 232	Technical & Business Writing
MTH 120	Beginning Algebra or higher
PLS 141	American National Government
PSY 140	Introduction to Psychology

CORRECTIONS CORE REQUIREMENTS – (15 credits)

CRJ 119*	Client Growth & Development
CRJ 120*	Human Relations for Corrections
CRJ 121*	Introduction to Corrections
CRJ 124*	Institution Populations
CRJ 127*	Corrections Law

**Recommended for prospective State of Michigan correctional officers. Each corrections course must be completed with a 2.0 to meet the requirement of the Michigan Correctional Officers Training Council.*

CORRECTIONS OFFICER – SKILL SET (CORR.SSET)

Minimum credits:	15
Minimum GPA:	2.0
Minimum grade in each course:	2.0
Minimum JCC credits:	12
MACRAO Agreement:	No

REQUIRED COURSES – (15 credits)

Take the following:

CRJ 119	Client Growth & Development
CRJ 120	Human Relations for Corrections
CRJ 121	Introduction to Corrections
CRJ 124	Institution Populations
CRJ 127	Corrections Law

Students with an ACT composite of 18 and mathematics score of 18 meet the competencies and are exempt from course placement assessment. Students who complete course placement and who do not receive a minimum of 41 in reading and 1 or 2 in writing on the course placement assessment are not eligible to enroll in more than three CRJ courses in one semester. Students who successfully pass the Civil Service Exam may waive course placement assessment and complete required coursework for corrections officers.

CORRECTIONS OFFICER – (STATE OF MICHIGAN)

The information set forth summarizes the requirements of the Michigan Department of Corrections for prospective corrections officers. These requirements, effective October 2000, are for informational purposes only and are subject to change by the Michigan Department of Corrections. Students should contact the Michigan Department of Corrections or the Michigan Department of Civil Service for information regarding its current requirements for correctional officers 517.334.7569 or 1.888.820.7129.

QUALIFICATIONS FOR CORRECTIONAL OFFICERS

- Minimum requirements: Possession of a high school diploma or GED and a minimum 18 years of age.
- To be eligible for consideration as a corrections officer, certain education and exam requirements must be satisfied. Most applicants must pass a written Civil Service Exam and have an educational background that includes at least 15 semester (or 23 term) college credit hours in corrections, criminal justice, psychology, sociology, family relations, guidance and counseling, pastoral counseling, social work or law enforcement. These credits must be earned before employment or within 18 months following the date of hire.
- Possession of 30 semester (or 45 term) college credit hours in any academic or degree prerequisite area meets the educational requirements, however passing the Civil Service exam is also required.
- Exam will be waived if you have an honorable discharge from active duty or National Guard duty or are currently a member of good standing in the National Guard.

- Any bachelor's degree or two years of satisfactory corrections officer employment at the state or federal prison level fulfills the education requirements and the exam is waived. Before being hired, an applicant must pass a physical fitness test given by the Michigan Department of Corrections which consists of:
 - completing 13 sit-ups in 30 seconds
 - 17 push-ups in 60 seconds, and
 - walking up and down steps, ranging up to 11 3/4 inches, for six minutes.

In addition, an applicant must have acceptable vision, hearing, and general good physical health, and pass a drug screen*.

An individual who has been convicted of a felony or domestic violence cannot be hired. Consideration cannot be given to an applicant who is on misdemeanor probation, has outstanding warrants, or has a controlled substance (drug) related conviction in any jurisdiction, including drug-related military discharges. In addition, an applicant who has been convicted of any other misdemeanor shall not be eligible for employment until one year after satisfactory completion of any sentence imposed, including probation.

Where to apply: Michigan Department of Civil Service, 400 South Pine, Lansing, MI 48909 or www.michigan.gov/mdcs.

Please note: Make sure you return the Civil Service application with the appropriate documentation. Example: transcripts, DD-214 (military), and/or employment history if you have corrections officer experience. For further information, please call 517.334.7569 or 1.888.820.7129.

**Failure to pass the drug screen will result in permanent elimination from consideration for employment, even if the failure is due to taking someone else's valid prescription.*

LAW ENFORCEMENT – ASSOCIATE IN APPLIED SCIENCE (LAEN.AAS)

Careers in law enforcement, including police officers and deputy sheriffs, are ever changing. Police officers help prevent crimes, investigate crimes and control traffic. Detectives and special agents gather facts and evidence for criminal cases. In Michigan, students must complete police academy training to be eligible for employment as a police officer. In many cases, police agencies require a minimum of an associate degree for new employees.

Minimum credits:	60
Minimum cumulative GPA:	2.0
Minimum grade in all courses:	2.0
Minimum JCC credits:	12
MACRAO Agreement:	No

GENERAL EDUCATION REQUIREMENTS – (23 credits)

ADO 1: Write clearly, concisely and intelligibly (6 credits)

Take the following:

- ENG 131 Writing Experience I
- ENG 132 Writing Experience II

ADO 2: Speak clearly, concisely and intelligibly (3 credits)

Choose one of the following:

- COM 231 Communication Fundamentals
- COM 240 Interpersonal Communication

ADO 3: Demonstrate computational skills and mathematical reasoning (3-4 credits)

Take the following:

- MTH 120 Beginning Algebra or higher

ADO 4: Demonstrate scientific reasoning (4-5 credits)

Choose one of the following:

- BIO 110 Introductory Biology
- BIO 131 General Biology
- BIO 132 Human Biology
- BIO 155 Human Anatomy & Physiology
- BIO 220 Microbiology
- BIO 253 Human Anatomy and Physiology I
- CEM 131 Fundamentals of Chemistry
- CEM 141 General Chemistry
- GEL 160 Introduction to Geology
- NSC 131 Contemporary Science
- PHY 131 Conceptual Physics
- PHY 151 Astronomy
- PHY 231 College Physics I
- PHY 251 Modern University Physics I

ADO 5: Understand human behavior and social systems, the principles which govern them and their implications for the present and future. (3 credits)

Take the following:

- PLS 141 American National Government

ADO 6: Understand aesthetic experience and artistic creativity (3 credits)

Choose one of the following:

- ART 111 Art History: Prehistoric to 1400
- ART 112 Art History: Renaissance to Present
- ENG 210 Introduction to Film
- ENG 246 Short Story & Novel
- ENG 247 Poetry & Drama
- ENG 252 Shakespeare
- ENG 255 American Literature - 19th Century
- ENG 256 American Literature - 20th Century
- HUM 131 Cultural Connections
- MUS 131 Understanding Music
- THR 116 Introduction to Theatre

ADO 7: Think critically

Program courses meet this requirement

ADO 8: Make responsible decisions in personal and professional contexts (1-3 credits)

Choose one of the following:

- HPF 160 Wellness
- HPF 186 Weight Training and Wellness
- HPF 277 Stress Management
- HPF 283 Managing Stress & Holistic Health
- PHL 236 Ethics

ADO 9: Work productively with others, recognizing individual contributions to group success Program courses meet this requirement

ADO 10: Understand and respect the diversity and interdependence of the world's peoples and cultures Program courses meet this requirement

LAW ENFORCEMENT RELATED REQUIREMENTS – (16 credits)

Take the following:

- CIS 101 Introduction to Computer Systems
- ENG 232 Technical & Business Writing
- PSY 140 Introduction to Psychology
- PSY 251 Abnormal Psychology
- SOC 231 Principles of Sociology

LAW ENFORCEMENT CORE REQUIREMENTS – (12 credits)

Take the following:

- CRJ 101 Criminal Law
- CRJ 111 Introduction to Criminal Justice
- CRJ 114 Police Administration & Operations
- CRJ 117 Criminology
or SOC 117 Criminology

LAW ENFORCEMENT ELECTIVES – (9 credits)

Choose 9 credits from the following:

- CRJ 102 Criminal Investigation
- CRJ 104 Criminal Justice Psychology
- CRJ 108 Criminal Justice Fieldwork – Security
- CRJ 112 Crime & Delinquency
- CRJ 113 Introduction to Criminalistics
- CRJ 116 Fire Investigation I
- CRJ 121 Introduction to Corrections
- CRJ 203 Field Studies

LAW ENFORCEMENT– CERTIFICATE (LAEN.CERT)

A certificate in law enforcement offers individuals an opportunity to pursue initial study in their areas of interest. Credits earned may be applied toward an associate degree.

Minimum credits:	34
Minimum cumulative GPA:	2.0
Minimum grade in all courses:.....	2.0
Minimum JCC credits:	12
MACRAO Agreement:	No

GENERAL EDUCATION REQUIREMENTS – (16 credits)

Take the following:

ENG 131	Writing Experience I
ENG 232	Technical & Business Writing
MTH 120	Beginning Algebra or higher
PLS 141	American National Government
PSY 140	Introduction to Psychology

LAW ENFORCEMENT CORE REQUIREMENTS – (18 credits)

Take the following:

CRJ 101	Criminal Law
CRJ 102	Criminal Investigation
CRJ 111	Introduction to Criminal Justice
CRJ 112	Crime & Delinquency
CRJ 114	Police Administration & Operations
CRJ 117	Criminology or SOC 117 Criminology

TRANSFER PROGRAMS

CRIMINAL JUSTICE/CORRECTIONS OR LAW ENFORCEMENT

Students may choose to begin their coursework at JCC and then transfer to earn a bachelor's degree in criminal justice. These students may manage prison systems, serve in law enforcement departments at the state and federal level or become parole and probation officers.

SUGGESTED COURSE SEQUENCE

First Year, Fall Semester

BIO 131, CRJ 111, ENG 131, MTH 131 or MTH 140*

First Year, Winter Semester

CEM 131, CRJ 112, ENG 132, PSY 140

Second Year, Fall Semester

CRJ 101 or 114, MTH 133**, PSY 251, PLS 141, PHL 231

Second Year, Winter Semester

CRJ 117 or SOC 117, SOC 235, MACRAO
humanities courses

**Check mathematics requirements of transfer institution.*

***MSU transfer students register for PSY 143*

CRIMINAL JUSTICE – BACHELOR'S DEGREE OPTION WITH SIENA HEIGHTS UNIVERSITY

Students can work with staff from JCC and Siena Heights University to earn a Bachelor of Arts degree in criminal justice. Tailored to build on the JCC associate degrees in law enforcement or corrections, students can transfer up to 90 credits from JCC and complete at least 30 hours credit from Siena with a minimum of 18 hours of criminal justice classes. All the courses for the bachelor's degree in criminal justice are available at the JCC main campus through the Siena Heights University degree completion center.

PSYCHOLOGY

Psychology covers a broad range of topics. Psychologists specialize in such areas as clinical psychology, counseling psychology, developmental psychology, physiological psychology, neuropsychology, educational psychology, experimental psychology, cognitive psychology, social psychology and cross-cultural psychology. Specialization begins after transferring and continues through graduate work. The first two years of coursework are similar regardless of the specialization.

SUGGESTED COURSE SEQUENCE

First Year, Fall Semester

BIO 131, ENG 131, MTH 140, PSY 140

First Year, Winter Semester

CEM 131, ENG 132, PSY 143, PSY 152, SOC 231

First Year, Spring Semester

COM 231, HIS 232

Second Year, Fall Semester

CIS 101, PLS 141, PSY 252, SOC 235, MACRAO
humanities course

Second Year, Winter Semester

ANT 131, ECN 231, PSY 251, PHL 231, PSY elective

SOCIAL WORK

Students planning a career in social work will learn to identify problems affecting individuals and their environment, become more aware and sensitive to issues of race, ethnicity, religion and gender and use their knowledge, skills and values to enhance the quality and delivery of services in the community. To prepare to become a social worker students obtain either a bachelor's or master's degree. Students need to investigate the programs at their intended transfer institution to be sure they offer the desired program. All social work programs are competitive.

SUGGESTED COURSE SEQUENCE

First Year, Fall Semester

CIS 101, ENG 131, MTH 131 or MTH 140*, NSC 131

First Year, Winter Semester

BIO 131, ENG 132, MTH 133, PSY 140

First Year, Spring Semester

HIS 232, SOC 231

Second Year, Fall Semester

ECN 231, HUM 131, PLS 141, PSY 251, SOC 235

Second Year, Winter Semester

COM 231, PHL 231, PSY elective, SOC elective

**Check mathematics requirements at transfer institution.*

PRE-LAW

Pre-law is a major often selected by students interested in pursuing careers in government or law. For many students, a bachelor's degree in political science is the first step toward their ultimate goal of an advanced degree in programs such as public administration, law or urban planning, to name a few.

SUGGESTED COURSE SEQUENCE FOR PRE-LAW**First Year, Fall Semester**

ENG 131, HIS 231, MTH 140, PLS 141, MACRAO science course

First Year, Winter Semester

ENG 132, MTH 133, PHL 231, MACRAO science course

Second Year, Fall Semester

COM 231, ECN 231, HIS 232, PSY 140, elective

Second Year, Winter Semester

ECN 232, PHL 232, SOC 231, electives

TEACHER EDUCATION

The field of education is rapidly changing and aspiring teachers must be motivated and dedicated to academic excellence and willing to face the challenges presented in the real world of students, teachers, classrooms and schools.

Students pursuing either an elementary, special education or secondary teaching certificate need to major and/or minor in subject disciplines they plan to teach. All students pursuing teacher certification should plan to take the Michigan Test for Teacher Certification: Basic Skills (reading, writing and mathematics) during the second semester of their freshman year or after completion of 12-16 credit hours. All colleges require successful completion of this test before acceptance into their departments of education. For information on test dates, registration and cost, contact the Student Center, the teacher education academic advisor, the education coordinator or the main offices at the JCC centers.

Each four-year institution has additional requirements for admission into their college/school of education. Students must investigate specific requirements in the teacher education program offered by their intended transfer institution, including information pertaining to certification major and minor areas. Each four-year institution offers teacher certification in particular subject areas. Early in the second semester of the freshman year, students should

contact their intended transfer institution for up-to-date transfer information.

Students must first be admitted to the four-year institution and then follow the specific institution's procedure for admittance into that institution's college/school of education. Acceptance into a four-year college is not an automatic acceptance into their college/school of education. To become a state certified teacher in Michigan, a student must earn a bachelor's degree in education and pass the Michigan Basic Skills Test as well as the content test in their major and minors(s).

ELEMENTARY EDUCATION

The curriculum for students planning to become elementary teachers varies considerably depending on teaching major and/or minors chosen and intended transfer institutions. Please see an advisor for additional information for the full-time elementary education student program at JCC.

SECONDARY EDUCATION AND SPECIAL EDUCATION

Students planning to become a secondary education teacher or a special education teacher must follow the recommended course of study provided by the transfer institution. Consult the transfer institution of choice for requirements as early as possible for course selection recommendations.

JCC TEACHER EDUCATION FEATURES

JCC's program for education majors benefits the student by:

- Partnerships with and transfer facilitation to four-year institutions
- Focusing on education issues and perspectives through:
 - EDU focused general education curriculum courses (ex. English 132-special section with education focus)
 - Student forums and events where subject matter relative to education and the teaching profession is presented, discussed and clarified
 - Newsletters and web site information www.jccmi.edu/programs/teachereducation/
 - The ability to earn an associate degree while preparing to transfer to a four-year institution.

JCC recommends by the end of the freshman year each student:

- Investigate and decide a major/minor subject to teach
- Investigate and decide on a transfer four-year institution
- Complete application for the Michigan Test for Teacher Certification (MTTC-Basic Skills)
- Contact desired transfer institution for information regarding accepted courses or follow that institution's transfer guidelines.

ADDITIONAL TEACHER EDUCATION COURSES OFFERED AT JCC INCLUDE:

ART 131 Art Education (3 credits)

ENG 254 Children's Literature (3 credits)

MTH 210 Foundations in Math I (3 credits)

MTH 211 Foundations in Math II (3 credits)

MUS 133 Music Education (3 credits)

**Several EDU focus courses are available each semester. Check the teacher education web site at www.jccmi.edu/programs/teachereducation/ See respective areas for course descriptions (always check your transfer institution for transferability.)*