

## Associate in Science (SCIE.AS)

This pre-baccalaureate degree is designed for students who plan to transfer to a four-year college or university to pursue a bachelor's degree. It is selected by students planning to pursue a career in engineering, medicine, health sciences and other science-related professions.

Note: Only courses with a 2.0 or better transfer to most four-year colleges and universities. To complete the Michigan Transfer Agreement, students must carefully plan their courses. Completion of the Associate in Science degree does NOT guarantee the Michigan Transfer Agreement designation.

*Minimum credits: 60*

*Minimum grade in all courses: 2.0*

*Minimum cumulative GPA: 2.0*

*Minimum Jackson College credits: 15*

## GENERAL EDUCATION REQUIREMENTS (23-27 CREDITS)

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

#### Take the following:

ENG 131 Writing Experience I

#### Choose one of the following:

ENG 132 Writing Experience II

ENG 201 Advanced Composition

### GEO 2: Recognize the importance of equity and inclusion in a diverse society (3 credits)\*\*

#### Choose one of the following:

ANT 131 Cultural Anthropology

COM 250 Intercultural Communication

ENG 249 African-American Literature

HIS 125 African-American History

HIS 211 Minority Groups in America

HUM 131 Cultural Connections

PHL 243 Great World Religions

PLS 262 International Relations

PSY 152 Social Psychology

SOC 246 Marriage and Family

**GEO 3: Demonstrate computational skills and mathematical reasoning (4-5 credits)**

**Choose one of the following:**

- MAT 141 Pre-Calculus
- MAT 151 Calculus
- MAT 154 Calculus II

**GEO 4: Demonstrate scientific reasoning (4-5 credits)**

**Choose one of the following:**

- BIO 110 Introduction to Biology
- BIO 132 Human Biology
- BIO 158 Environmental Science
- BIO 161 General Biology I
- BIO 162 General Biology II
- BIO 231 General Botany
- BIO 232 General Zoology
- BIO 220 Microbiology
- CEM 141 General Chemistry I
- GEL 109 Earth Science
- GEL 160 Introduction to Geology
- PHY 151 Astronomy
- PHY 231 College Physics I
- PHY 251 Modern University Physics I

**GEO 5: Understanding human behavior and social systems, and the principles which govern them (3-4 credits)**

**Choose one of the following:**

- ECN 231 Macroeconomics
- ECN 232 Microeconomics
- HIS 131 Western Civilization to 1555
- HIS 132 Western Civilization 1555 to Present
- HIS 231 Development of the US through the Civil War
- HIS 232 Development of the US from the Civil War
- HIS 235 20th Century History
- PLS 141 American National Government
- PSY 140 Introduction to Psychology
- SOC 231 Principles of Sociology

**GEO 6: Identify artistic, linguistic, and theoretical perspectives across the human experience (3 credits)**

**Choose one of the following:**

- ART 111 Art History: Prehistoric to 1400
- ART 112 Art History: Renaissance to Present
- ENG 210 Film in Literature
- ENG 246 Short Story & Novel
- ENG 247 Poetry & Drama

ENG	249	African-American Literature
ENG	252	Shakespeare
ENG	254	Children's Literature
ENG	255	American Literature – 19th Century
ENG	256	American Literature – 20th Century
ENG	261	Creative Writing
HUM	131	Cultural Connections
MUS	130	Music of Non-Western Cultures
MUS	131	Understanding Music
MUS	132	History of American Popular Music
MUS	151	Music Theory I
MUS	152	Music Theory II
PHL	231	Introduction to Philosophy
PHL	243	World Religions
SPN	131	Elementary Spanish I
SPN	132	Elementary Spanish II
SPN	231	Intermediate Spanish I
SPN	232	Intermediate Spanish II
THR	116	Introduction to Theatre
WRL	102	Portuguese Conversation I
WRL	103	Portuguese Conversation II
WRL	104	Mandarin I
WRL	105	Mandarin II

## **NATURAL SCIENCE (16 CREDITS)**

**(At least one course must be from a different discipline than taken in GEO 4)**

**Choose from the following:**

BIO	110	Introductory Biology
BIO	132	Human Biology
BIO	158	Environmental Science
BIO	253	Human Anatomy and Physiology I
BIO	254	Human Anatomy and Physiology II
BIO	161	General Biology I
BIO	162	General Biology II
BIO	220	Microbiology
BIO	231	General Botany
BIO	232	General Zoology
CEM	131	Fundamentals of Chemistry
CEM	132	Fundamentals of Organic and Biological Chemistry
CEM	141	General Chemistry I
CEM	142	General Chemistry II
CEM	241	Organic Chemistry I
CEM	242	Organic Chemistry II
EGR	261	Engineering Mechanics I
EGR	262	Engineering Mechanics II
GEL	109	Earth Science
GEL	160	Introduction to Geology
MAT	151	Calculus I

MAT	154	Calculus II
MAT	251	Calculus III
MAT	254	Differential Equations
PHY	131	Conceptual Physics
PHY	151	Astronomy
PHY	231	College Physics I
PHY	232	College Physics II
PHY	251	Modern University Physics I
PHY	252	Modern University Physics II

## PROGRAM REQUIREMENTS

Additional courses\*\* so that total degree equals 60 credits. Plan to visit a student success navigator to obtain a guide sheet and/or to discuss requirements for your selected program of study. Students are encouraged to choose courses that transfer as equivalent credit to four-year colleges and universities. Students are responsible to see those courses taken meet the requirements for their chosen program of study.

\*\*Courses identified as remedial or developmental cannot be used as credits toward degrees or certificates. These courses currently include: CIS 090, 095; ENG 080, 085, 090, 091, 101, 102, 109, 110; MAT 019, 020, 030, 031, 033, 035, 039; MTH 090, 095, 098, 100, and 110; and, MTT 009. MTH 120 is also excluded from fulfilling the Associate in Science degree requirements.

Additional courses excluded from credits toward degrees and certificates are continuing education courses (prefix CCE, CED, CEU, CFO, CJT, CSS, ESL, LTL) and courses offered through Jackson College's workforce training programs (prefixes JTI, PDI).