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 effective communication in a dynamic and changing society (3 credits)

Choose one of the following:

COM	231	Communication Fundamentals
COM	240	Interpersonal Communication
COM	250	Intercultural Communication
HIS	211	Minority Groups in America
HUM	131	Cultural Connections
PHL	243	Great World Religions
PLS	262	International Relations
PSY	152	Social Psychology *(or SOC 152 Social Psychology)*
SOC	246	Marriage & 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: Understand and appreciate 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	242	Sports in Film and 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 I
HUM	131	Cultural Connections
MUS	131	Understanding Music
MUS	151	Music Theory I
MUS	152	Music Theory II
THR	116	Introduction to Theatre

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).