

SCIENCE AND MATHEMATICS

Overview

TTC's Division of Science and Mathematics provides the first two years of a four-year degree as well as general education and support courses for TTC programs. Students who plan to earn a degree from a four-year college or university can take freshman and sophomore-level transfer courses through the Associate in Science degree program or through one of the specialty 2+2 programs.

For more information, call the Division of Science and Mathematics at 843.574.6015.

General Information

The Associate in Science program is designed to prepare students for four-year (baccalaureate) majors in such fields as:

- Engineering
- Biology
- Mathematics
- Chemistry
- Physics
- Education
- Environmental Science
- Pre-Med
- Pre-Veterinary
- Physician's Assistant
- Veterinary Medicine
- Forensic Science
- Chiropractic
- Radiation Therapy
- Industrial Management
- Medical Technology
- Cytotechnology
- Communication Sciences and Disorders
- Extracorporeal Circulation
- Health Information Administration
- Occupational Therapy
- Pharmacy
- Physical Therapy
- Other Health-Related Fields

Cancellation Policy

TTC reserves the right to cancel courses due to inadequate enrollment.

Note:

As with all TTC programs, students should consult with an academic advisor to discuss program requirements. Please note that you must have a separate advisor for this program, even if enrolled in more than one program at TTC. Academic advisors are assigned as part of the College orientation process conducted in the Orientation Centers on each campus through a walk-in service. Associate in Science advisors are selected based upon the college or university and upon the program to which you intend to transfer, including programs at TTC. Please refer to the New Student Orientation for more details.

Programs of Study

Associate Degree Program

Associate in Science

Associate in Science

Associate in Science

Credit Requirements: 60 Semester Credit Hours

Program Credit Requirements

The Associate in Science degree is designed for students planning to transfer to four-year programs and for students who wish to broaden their general knowledge. The degree stresses mathematics and natural and physical sciences.

Recommended Sequence of Courses

I. General Education Requirements:

ENG 101	English Composition I	3
ENG 102	English Composition II	3
MAT 110	College Algebra	3
or		
MAT 112	Precalculus	5
or		
MAT 120	Probability and Statistics	3
or		
MAT 140	Analytic Geometry and Calculus I	4
PSY 201	General Psychology	3
or		
ECO 210	Macroeconomics	3
SPC 205	Public Speaking	3
or		
SPC 209	Interpersonal Communication	3
or		
THE 101	Introduction to Theater	3

II. Math/Lab Science Requirements

(Must include another math course and at least one lab science course.)

Select 21 semester credit hours from the following:

AST 101	Solar System Astronomy	4
AST 102	Stellar Astronomy	4
BIO 101	Biological Science I	4
BIO 102	Biological Science II	4
BIO 210	Anatomy and Physiology I	4
BIO 211	Anatomy and Physiology II	4
BIO 225	Microbiology	4
CHM 110	College Chemistry I	4
CHM 111	College Chemistry II	4
CHM 211	Organic Chemistry I	4
CHM 212	Organic Chemistry II	4
EVT 222	Environmental Microbiology	4
EVT 224	Environmental Chemical Analyses	4
MAT 110	College Algebra	3
MAT 111	College Trigonometry	3
MAT 112	Precalculus	5
MAT 120	Probability and Statistics	3
MAT 132	Discrete Mathematics	3
MAT 140	Analytic Geometry and Calculus I	4
MAT 141	Analytic Geometry and Calculus II	4
MAT 240	Analytic Geometry and Calculus III	4
MAT 242	Differential Equations	4
PHY 201	Physics I	4
PHY 202	Physics II	4
PHY 221	University Physics I	4
PHY 222	University Physics II	4
PHY 223	University Physics III	4

III. Humanities, Languages and Social Science Requirements

Select nine semester credit hours from the following (must include at least one Humanities course):

ART 101	Art History and Appreciation	3
ART 107	History of Early Western Art	3
ART 108	History of Western Art	3
ENG 201	American Literature I	3
ENG 202	American Literature II	3
ENG 205	English Literature I	3
ENG 206	English Literature II	3
ENG 208	World Literature I	3
ENG 209	World Literature II	3
ENG 214	Fiction	3
ENG 218	Drama	3
ENG 222	Poetry	3
HIS 101	Western Civilization to 1689	3
HIS 102	Western Civilization Post 1689	3
HIS 104	World History I	3

HIS 105	World History II	3
HIS 106	Introduction to African History	3
HIS 130	African-American History to 1877	3
HIS 131	African-American History, 1877 to Present	3
HIS 201	American History: Discovery to 1877	3
HIS 202	American History: 1877 to Present	3
MUS 105	Music Appreciation	3
PHI 101	Introduction to Philosophy	3
PHI 110	Ethics	3
THE 101	Introduction to Theater	3

Languages/Social Sciences:

ANT 101	General Anthropology	3
CRJ 101	Introduction to Criminal Justice	3
ECO 210	Macroeconomics	3
ECO 211	Microeconomics	3
FRE 101	Elementary French I	4
FRE 102	Elementary French II	4
FRE 201	Intermediate French I	3
FRE 202	Intermediate French II	3
GER 101	Elementary German I	4
GER 102	Elementary German II	4
GER 201	Intermediate German I	3
GER 202	Intermediate German II	3
PSC 201	American Government	3
PSC 215	State and Local Government	3
PSC 220	Introduction to International Relations	3
PSY 201	General Psychology	3
PSY 203	Human Growth and Development	3
PSY 212	Abnormal Psychology	3
SOC 101	Introduction to Sociology	3
SOC 102	Marriage and the Family	3
SOC 230	Introduction to Gerontology	3
SPA 101	Elementary Spanish I	4
SPA 102	Elementary Spanish II	4
SPA 201	Intermediate Spanish I	3
SPA 202	Intermediate Spanish II	3

IV. Computing Requirement

(Select one from the following.)

CPT 101	Introduction to Computers	3
CPT 102	Basic Computer Concepts	3
EGR 270	Introduction to Engineering	3

V. Electives

Select 12 credits from the following courses:
(NOTE: Students may also select from courses in Mathematics and Lab Science requirements and Humanities, Languages and Social Sciences requirements above.)

ACC 101	Accounting Principles I	3	SPC 205	Public Speaking	3
ACC 102	Accounting Principles II	3	SPC 209	Interpersonal Communication	3
BIO 205	Ecology	3			
BIO 206	Ecology Lab	3			
BUS 101	Introduction to Business	3			
BUS 121	Business Law I	3			
CHM 101	Survey of Organic Chemistry	3			
CWE	Cooperative Work Experience	3			
ECE 201	Electrical and Computer Engineering Seminar	1			
ECE 205	Electrical and Computer Lab I	3			
ECE 211	Introduction to Computer Engineering I	3			
ECE 212	Introduction to Computer Engineering II	3			
ECE 221	Introduction to Electrical Engineering I	3			
ECE 222	Introduction to Electrical Engineering II	3			
EGR 260	Engineering Statics	3			
EGR 262	Engineering Dynamics	3			
EGR 264	Introduction to Engineering Mechanics of Solids	3			
EGR 266	Engineering Thermodynamics Fundamentals	3			
EGR 273	Problem Solving for Engineers	2			
EGR 275	Introduction to Engineering/Computer Graphics	3			
EGR 282	Introduction to Civil Engineering	2			
EGR 285	Engineering Surveying I	3			
EGR 286	Engineering Surveying II	3			
EGR 295	Engineering Surveying Lab I	1			
EGR 296	Engineering Surveying Lab II	1			
ENG 260	Advanced Technical Communications	3			
EVT 110	Introduction to Treatment Facilities	3			
EVT 154	Chemistry of Hazardous Materials	4			
EVT 201	Environmental Science	3			
EVT 210	Introduction to Environmental Law	3			
EVT 251	Health Effects of Hazardous Materials	3			
EVT 254	Industrial Safety and Emergency Response	3			
EVT 256	Hazardous Waste	3			
GEO 102	World Geography	3			
JOU 101	Introduction to Journalism	3			
MAT 109	College Algebra with Modeling	3			
MAT 123	Contemporary College Mathematics	3			
MAT 130	Elementary Calculus	3			
MGT 101	Principles of Management	3			
MGT 201	Human Resource Management	3			
MKT 101	Marketing	3			
SCI 205	Environmental Science Institute	3			

No course can count more than once.

Associate in Science

Associate in Science
Credit Requirements: 60 Semester Credit Hours
Sample Degree Plan

The associate in science program allows flexibility in course selection and sequencing. The following sample may be a helpful guide for students who are planning to transfer but are unsure where or for what major. If you already know where you plan to transfer and/or for which major, see your assigned advisor for the Associate in Science program. This degree plan may not be suited to your goal.

First Semester

English Composition I (ENG 101)	3
General Psychology (PSY 201)	
or	
Macroeconomics (ECO 210)	3
Introduction to Computers (CPT 101)	3
College Algebra (MAT 110)	3
Lab Science	4

Second Semester

English Composition II (ENG 102)	3
College Trigonometry (MAT 111)	3
Lab Science	4
Languages/Social Science	3
*Electives	3

Third Semester

Math or Lab Science	4
Math or Lab Science	4
Humanities	3
*Electives	3

Fourth Semester

Math or Lab Science	4
Communication (SPC 205, SPC 209 or THE 101)	3
Humanities/Languages/Social Sciences	3
*Electives	4-6

Minimum semester credit hours required: 60

** Recommend additional math/lab science or humanities/languages/social sciences courses as electives*

All courses must be selected from the Associate in Science display.

Lighter semester loads may be accomplished by attending Summer Semester(s).