

ASSOCIATE IN SCIENCE, A.S. - AS3

The Associate in Science degree stresses mathematics and natural/physical sciences and is designed for students planning to transfer to a four-year program and for students who wish to broaden their general knowledge. The aim of the A.S. program is to prepare students who are seeking a four-year baccalaureate major in academic fields such as mathematics, science, engineering, pre-med, veterinary medicine, chiropractic, and education.

Courses	Course Title	Credit Hours
General Education Courses		
	Communication and/or Literature	9
	Humanities/Fine Arts, and Social Behavioral Sciences ¹	12
	Mathematics and/or Natural Sciences	8
	Subtotal	29
Required Core Subject Areas		
	Mathematics and/or Natural Sciences	15
	Subtotal	15
Other Course Required for Graduation		
COL 103	College Skills	3
	Electives ²	13
	Subtotal	16
	Total Hours	60

¹ with at least 3 SCH from Humanities/Fine Arts and 3 SCH from Social/Behavioral Sciences

² courses to be chosen by the student under the guidance of his/her advisor, for the purpose of allowing the student to adapt the program to their individual goals

Courses	Course Title	Credit Hours
Communication/ Literature		
ENG 101	English Composition I	3
ENG 102	English Composition II	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 235	Southern Literature	3
SPC 205	Public Speaking	3
Mathematics/ Analytical Reasoning		
MAT 110	College Algebra	3
MAT 111	College Trigonometry	3
MAT 120	Probability and Statistics	3

MAT 122	Finite College Mathematics	3
MAT 130	Elementary Calculus	3
MAT 140	Analytical Geometry and Calculus I	4
MAT 141	Analytical Geometry and Calculus II	4
MAT 220	Advanced Statistics	3
MAT 240	Analytical Geometry and Calculus III	4
MAT 242	Differential Equations	4
PHI 105	Introduction to Logic	3
Social/ Behavioral Science		
ECO 210	Macroeconomics	3
ECO 211	Microeconomics	3
HIS 101	Western Civilization to 1689	3
HIS 102	Western Civilization Post 1689	3
HIS 115	African-American History	3
HIS 201	American History : Discovery to 1877	3
HIS 202	American History : 1877 to Present	3
PSC 201	American Government	3
PSC 215	State and Local Government	3
PSY 201	General Psychology	3
PSY 203	Human Growth and Development	3
PSY 210	Educational Psychology	3
PSY 212	Abnormal Psychology	3
SOC 101	Introduction to Sociology	3
SOC 205	Social Problems	3
SOC 206	Social Psychology	3
SOC 210	Juvenile Delinquency	3
SOC 220	Sociology of the Family	3

Humanities/ Fine Art

ART 101	Art History and Appreciation	3
ART 105	Film as Art	3
ART 108	History of Western Art	3
ART 122	3-D Design Fundamentals	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 235	Southern Literature	3
HSS 105	Technology and Culture	3
MUS 105	Music Appreciation	3
PHI 101	Introduction to Philosophy	3
PHI 105	Introduction to Logic	3
PHI 110	Ethics	3
REL 103	Comparative Religion	3
THE 101	Introduction to Theatre	3

Lab Science

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 106	Contemporary Chemistry I	4
CHM 107	Contemporary Chemistry II	4
CHM 110	College Chemistry I	4
CHM 111	College Chemistry II	4
PHS 101	Physical Science I	4
PHS 102	Physical Science II	4
PHY 201	Physics I	4
PHY 202	Physics II	4
PHY 221	University Physics I	4
PHY 222	University Physics II	4

Concentration/ Required Core Electives

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
CHM 106	Contemporary Chemistry I	4
CHM 107	Contemporary Chemistry II	4
CHM 110	College Chemistry I	4
CHM 111	College Chemistry II	4
PHS 101	Physical Science I	4
PHS 102	Physical Science II	4
PHY 201	Physics I	4
PHY 202	Physics II	4
PHY 221	University Physics I	4
PHY 222	University Physics II	4
MAT 110	College Algebra	3
MAT 111	College Trigonometry	3
MAT 120	Probability and Statistics	3
MAT 130	Elementary Calculus	3
MAT 140	Analytical Geometry and Calculus I	4
MAT 141	Analytical Geometry and Calculus II	4
MAT 220	Advanced Statistics	3
MAT 240	Analytical Geometry and Calculus III	4
MAT 242	Differential Equations	4
PHI 105	Introduction to Logic	3

Recommended Electives

COL 103	College Skills	3
CPT 101	Introduction to Computers	3
SPA 101	Elementary Spanish I	4
SPA 102	Elementary Spanish II	4
SPA 107	Hispanic Culture and Communication	3

Electives depend on students' educational goals and may show wide variety. Students should consult their advisors for appropriate elective courses. Electives may also be selected from any college transfer course.

Selected courses from the above listing are offered each term. Students should consult with their advisors before making selections and check the requirements of the college to which they plan to transfer.

Application and Advising

If you are ready to start your education, there are a few simple steps involved in enrolling at Piedmont Technical College.

Get Started Today (<https://www.ptc.edu/admissions/new-students/>)

Advising Information

The following information provides a guide for advisors who are helping students enroll in this program.

Program Notes

This program can be completed on a part-time or a full-time basis. Classes can be started any semester.

Students and advisors are encouraged to review the Transfer Guides. These guides give institution-specific information about courses required for individual majors, bridge programs, articulation agreements, etc. The "Requirements for Individual Majors" link will outline preferred courses to complete the associate degree while expediting the completion of a bachelor's degree.

- With an AS degree, graduates can transfer directly to any state-supported four-year institution in SC. Overall, credits from PTC are accepted at more than 23 institutions in SC and surrounding states. Refer to transfer guide links to see which PTC courses are equivalent to those required by the senior institution the student is planning to attend.
- The final decision as to the transferability of courses will be made by the senior institution at the time of transfer. For protection, the student should visit the senior institution and secure approval of all courses.
- Bridge programs have been established that will give students' benefits that vary by institution. Joining a bridge program is not required to transfer to any public four-year college.
- Depending on the senior institution, transfer credit of sciences may require completion of a series and may require enrollment in a face-to-face lab (not online).
- Students who transfer prior to AA/AS degree completion can transfer back credit to Piedmont Technical College and complete their Associate Degree while enrolled at the senior institution. See Student Records for more details.

Notes About Individual Classes

Every student should take ENG 101 and ENG 102. At some institutions, ENG 101 and 102 will transfer in as ENG 103. Please check the senior institution's catalog for more details.

When advising for SPA 101, we strongly recommend that students successfully complete ENG 101 (or have strong placement scores for

ENG 101 and have demonstrated competency in English language skills) before attempting SPA 101.

Strong reading and study skills are needed for success in BIO 101 & 102.

Prerequisite for CHM 110 is MAT 110 or appropriate algebra placement score showing readiness for MAT 111. This course requires strong reading skills.

Program Student Learning Outcomes

Purpose Statement

An Associate in Science (AS) Degree provides students a foundation in mathematics and the natural sciences and is designed to transfer into a variety of Baccalaureate programs at a four-year institution.

Program Student Learning Outcomes

(General Education Student Learning Outcomes)

1. Communicate effectively.
 - a. Read with comprehension.
 - b. Write with standard English.
2. Apply mathematical skills appropriate to an occupation.
 - a. Apply mathematical skills to solve problems.
 - b. Perform computational skills.
 - c. Read and interpret and draw conclusions.
3. Employ effective processes for resolving and making decisions.
 - a. Integrate information to solve problems.
 - b. Summarize information and draw conclusions.
4. Demonstrate the basic computer skills necessary to function in a technological world.
 - a. Locate and retrieve information in digital environments.
 - b. Adapt, apply, and construct information in electronic environments (Word, Excel, PowerPoint, etc.)