

Associate of Science Academic Degree Map Template

STEM 2026-2027

Biology, Math, Chemistry, Pre-Engineering, Pre-Nursing, Pre-Health Professional (Pre-Med, Pre-Dentistry, Pre-Pharmacy, Pre-Optometry, Pre-Vet, Physical Therapy): see advisor for recommended courses.

This is a suggested sequence of classes based on the average student load and course prerequisites. Not all courses are offered every semester. For specific discipline electives, please refer to the page labeled "Systemwide General Education Program" following the degree requirements in the PCC Catalog. The specific required math course depends on the area of study. Milestones, courses, and special requirements necessary for timely progress to complete an area of study are designated to keep students on track to graduate in two years. Missing any of these could delay program completion. Students should consult with their advisor for more information.

*Co-requisite Course (if needed, must be taken with college level required course)		
(ENG098 +ENG176), (MTH078 +MTH178), (MTH081 + MTH181)		
ENG098	Support for English Composition I	3 cr hrs
MTH078	Support for College Algebra	3 cr hrs
MTH081	Support for Elementary Statistics	3 cr hrs

1 ST SEMESTER			2 ND SEMESTER		
Course	Hrs	Milestones/Notes	Course	Hrs	Milestones/Notes
ENG176 Eng Comp I (SGE) ⁰¹⁰	3		ENG177 Eng Comp II (SGE) ⁰¹⁰	3	ENG176 w/ C or higher
MTH178 or higher (SGE) ⁰³⁰	3	Excluding MTH181	Communication (SGE) ⁰²⁰	3	
Natural & Physical Sciences (SGE) ⁰⁴⁰	4-5	Must include lab	Social & Behavioral Sciences (SGE) ⁰⁵⁰	3	
Arts & Humanities (SGE) ⁰⁶⁰	3		*Area of Study	3	
Open Electives	3-4		Open Electives	4	
TOTAL	16-17		TOTAL	16	
3 rd SEMESTER			4 th SEMESTER		
Course	Hrs	Milestones/Notes	Course	Hrs	Milestones/Notes
*Area of Study	4-5		*Area of Study	3	
Arts & Humanities (SGE) ⁰⁶⁰	3		Social & Behavioral Sciences (SGE) ⁰⁵⁰	3	
Institutionally Designated (SGE) ⁰⁷⁰	3		Institutionally Designated (SGE) ⁰⁷⁰	3	
Open Electives	5		Open Electives	7	
TOTAL	15-16		TOTAL	16	

DEGREE TOTAL: 64

Open electives (19-20 hrs) include non-required courses from other disciplines or the student's area of study.

***Area of Study Courses 10 hrs required from the specific courses listed below:**

Course	Hrs	Milestones/Notes	Course	Hrs	Milestones/Notes
CHM186 Gen Chem I	5	MTH178 C or higher or CHM176 C or higher Fall Only	CHM187 Gen Chem II	5	CHM186 C or higher Spring Only
PHS251 Gen Physics 1	5	MTH178 Col Alg C or higher Fall Only	PHS252 Gen Physics II	5	PHS251 C or higher Spring Only
MTH191 Anal Geom & Calculus I	5	MTH178 Col Alg C or higher Fall Only	MTH183 Trigonometry	3	Col Alg C or higher/ placement Spring Only
PHS261 Engineering Physics I	5	Concurrent or completion of MTH191 C or higher Fall Only	MTH193 Anal Geom & Calculus II	5	MTH191 C or higher Spring Only
BIO123 Environmental Science or BIO121 Environmental Science	4 5	Fall Only Online only	PHS262 Engineering Physics II	5	PHS261 C or higher Spring Only
CHM176 Fund. Of Chemistry	5		BIO160 Biology II	5	BIO125 C or higher Spring Only

MTH181 Elem. Statistics	3	Placement measures req.	Any PSC course w/ Lab	4/5	
BIO125 Gen Biology	5				

Systemwide General Education (SGE) Key

010 English	050 Social & Behavioral Sciences
020 Communications	060 Arts & Humanities
030 Math & Statistics	070 Institutionally Designated
040 Natural & Physical Sciences	

STEM: RECOMMENDED COURSES PER OPTIONAL AREA OF EMPHASIS:

Pre-Engineering Recommended Courses

Course	Hrs	Milestones/Notes	Course	Hrs	Milestones/Notes
Fall Semester			Spring Semester		
CHM186	5	1 st Semester	CHM187	5	2 nd Semester
PHS261	5	3 rd Semester	MTH183	3	2 nd Semester
MTH191	5	3 rd Semester	PHS262	3	4 th Semester
			MTH193	5	4 th Semester

Pre-Chemistry Recommended Courses

Course	Hrs	Milestones/Notes	Course	Hrs	Milestones/Notes
Fall Semester			Spring Semester		
CHM186	5	1 st Semester	CHM187	5	2 nd Semester
PHS251 or PHS261	5	3 rd Semester	PHS252 or PHS262	5	4 th Semester
MTH191	5				

Math Recommended Courses

Course	Hrs	Milestones/Notes	Course	Hrs	Milestones/Notes
MTH181	3		MTH191	5	MTH177/178 "C" or Higher

Biology Recommended Courses

Course	Hrs	Milestones/Notes	Course	Hrs	Milestones/Notes
BIO125	5		BIO160	5	
CHM186	5		CHM187	5	
PHS251	5		PHS252	5	
BIO165	5				

Pre-Nursing Recommended Courses

Course	Hrs	Milestones/Notes	Course	Hrs	Milestones/Notes
PSY132	3		SOC176	3	
PSY176	3		MTH178	3	
BIO165	5		HPR161/BIO101	3	
BIO276 & BIO277 or BIO278	4-8 5		CHM176	5	
BIO290	4		MTH181	3	
BUS249	3				

Pre-Health Professional: Recommended Courses

Pre-Medicine, Pre-Pharmacy, Pre-Optometry, Pre-Veterinary, Pre-Dentistry, Physical Therapy

Course	Hrs	Milestones/Notes	Course	Hrs	Milestones/Notes
Fall Semester			Spring Semester		
CHM186	5	1 st Semester	CHM187	5	2 nd Semester
PHS251	5	3 rd Semester	PHS252	5	4 th Semester
BIO125	5		BIO165	5	
MTH181	3		MTH183	3	
AGR132	3	For pre-vet	AGR142	3	For pre-vet