

# Pre-Engineering

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## Pre-Engineering (PENG)

The Pre-Engineering program provides students with the academic foundation needed for transfer to a bachelor's degree program in engineering science, such as electrical, chemical, civil, mechanical, computer, or environmental engineering. Students earn an Associate of Science degree and will be prepared to enter their bachelor's degree program with half of the required credits already completed.

Students must consult with their academic advisor before choosing electives, to ensure that elective courses meet the requirements of the college or university where they will complete their bachelor's degree.

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All degree-seeking students must complete a First Year Experience (FYE) course as part of the first 12 credit hours taken at Cincinnati State.

<b>Semester 1</b>		<b>Credits</b>
ENG 101	English Composition	3
CHE 121	General Chemistry 1	4
CHE 131	General Chemistry 1 Lab	1
MAT 251	Calculus 1	5
XXX XXX Introduction to Engineering Elective		2
XXX XXX Arts/ Humanities Elective 1		3
<b>Semester 2</b>		
ENG 10X English Composition Elective		3
PHY 201	Physics 1: Calculus-Based	5
MAT 252	Calculus 2	5
XXX XXX Technical Elective 1		3
<b>Semester 3</b>		
COMM 110	Public Speaking	3
PHY 202	Physics 2: Calculus-Based	5
XXX XXX Technical Elective 2		3
XXX XXX Arts/ Humanities Elective 2		3
XXX XXX Social Sciences Elective 1		3
<b>Semester 4</b>		
CULT 110	Social Issues in Technology	3
XXX XXX Technical Elective 2		3
XXX XXX Social Sciences Elective 2		3
XXX XXX Social Sciences Elective 3		3
XXX XXX Social Sciences Elective 4		3
Total Credits:		66

## Electives

### Introduction to Engineering Elective

BMT 151	Biomedical Instrumentation 1	4
CET 100	Introduction to Civil Engineering Technology	3
EMET 140	Electro-Mechanical Engineering Technology Foundations	2
EVS 110	Environmental Science: Conservation and Cleanup	4
MET 100	Introduction to Mechanical Engineering Technology	2

### English Composition Elective

ENG 102	Composition and Argument	3
ENG 103	Composition and Literature	3
ENG 104	Composition and Technical Communication	3
ENG 105	Composition and Business Communication	3

### Arts/Humanities Electives

Any Transfer Module course from ART, CULT, FRN, LIT, MUS, PHI, SPN, REL, THE

### Social Sciences Electives

Any Transfer Module course from CRJ, ECO, GEO, HST, LBR, POL, PSY, SOC

### Technical Electives

Any CET, CMT, BMET, EET, EMET, EVS, EVT, MET, PSET, SET with Program Chair consent