

# Pre-Engineering (PENG)

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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 are 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.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit our Admissions Page (<http://www.cincinnati.edu/academics/admission>)

## Pre-Engineering (PENG)

Semester 1		Lec	Lab	Credits
CIT 120	Introductory Mathematics for Engineering Applications ( <b>B</b> )	4	2	5
CHE 131	General Chemistry 1 Lab ( <b>G</b> )	0	3	1
ENG 101	English Composition 1 ( <b>G</b> )	3	0	3
CHE 121	General Chemistry 1 ( <b>G</b> )	4	0	4
FYE 1XX	First Year Experience Elective ( <b>B</b> )	1	0	1
XXX XXX	Arts/ Humanities Elective 1 ( <b>G</b> )	3	0	3
Semester 2				
PHY 201	Physics 1: Calculus-Based ( <b>G</b> )	4	2	5
MAT 251	Calculus 1 ( <b>G</b> )	5	0	5
ENG 10X	English Composition Elective ( <b>G</b> )	3	0	3
XXX XXX	Technical Elective ( <b>T</b> )	2	2	3
Semester 3				
COMM 110	Public Speaking ( <b>G</b> )	3	0	3
PHY 202	Physics 2: Calculus-Based ( <b>G</b> )	4	2	5
MAT 252	Calculus 2 ( <b>B</b> )	5	0	5

XXX XXX	Arts/ Humanities Elective 2 ( <b>G</b> )	3	0	3
Semester 4				
CIT 130	Engineering Programming with MATLAB ( <b>T</b> )	2	3	3
MAT 253	Calculus 3 ( <b>B</b> )	5	0	5
XXX XXX	Social Science Elective 1 ( <b>G</b> )	3	0	3
XXX XXX	Social Science Elective 2 ( <b>G</b> )	3	0	3
Total Credits:		57	14	63

## Electives

### First Year Experience Elective

FYE 100	College Survival Skills	1
FYE 105	College Success Strategies	2
FYE 110	Community College Experience	3

### English Composition Elective

ENG 102	English Composition 2: Contemporary Issues	3
ENG 103	English Composition 2: Topics in Literature	3
ENG 104	English Composition 2: Technical Communication	3
ENG 105	English Composition 2: Business Communication	3

### Arts/Humanities Electives

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

**Technical Elective**<sup>1</sup> 3

Any CET, CMT, BMET, EET, EMET, EVS, EVT, MET, PSET, SET

**Social Science Electives** 12

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

<sup>1</sup> Program Chair consent required

## Faculty

### Program Chair/Advisor

Professor George Armstrong, PE, PS, LS, BS  
george.armstrong@cincinnati.edu