

## Engineering Majors

Calculus I, II, III  
Differential Equations  
General Physics I, II with calculus  
Introduction to Engineering  
Programming Language\*  
Linear Algebra (for most majors)\*  
Statistics for Scientist (for many majors)\*  
General Chemistry I (for most majors)\*

\*see reverse side



For more information visit  
[www.eng.auburn.edu](http://www.eng.auburn.edu)  
or call 334.844.4310

**Engineering Club:** Prestigious! Making Bio-Diesel, building Robots, recycling and lots of fun stuffs!!!

**E-Day:** last Friday in February of each year. The engineering club organizes a car-pool to attend this annual event in the morning of the E-day.

### Transferring from AUM to Auburn

You need to meet the following minimum requirements:

- 1) cumulative GPA  $\geq 2.5$ .
- 2) eligibility to re-enter AUM
- 3) a minimum of 30 credit hours of core course work including at least the following courses:

a English (college-level composition or literature, at least C),  
a History,  
Calculus I (at least C) and  
a natural science with a laboratory.

- ✓ Apply to Auburn at least **nine** months in advance.
- ✓ Apply for admission on line at [www.auburn.edu](http://www.auburn.edu).
- ✓ Have **two** official transcripts sent to Auburn Admissions.
- ✓ Send a plan of study.
- ✓ Attend a one-day orientation, after you are accepted at Auburn.



## AUM Pre-Engineering Program

The AUM PreEngineering Program (PEN) offers a strong foundation for students intending to earn bachelor degrees in engineering at the Auburn University Samuel Ginn College of Engineering. The Program takes approximately two years of full-time college work to complete before the student is ready to transfer over to the Auburn main campus. The PEN is coordinated by the Department of Mathematics, AUM.

### Engineering Programs at Auburn

Aerospace (AERO)	Industrial & Systems (INSY)
Biosystems (BSEN)	Materials (MATL)
Chemical (CHEN)	Mechanical (MECH)
Civil (CIVL)	Computer (ECPE)
Software (SWEN)	Electrical (ELEC)
Wireless (WIRE/WIRS)	

### Contact at AUM

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*Our Standard is Excellence.*

### Recommended Core Classes

Mathematics, Physics and Engineering	English	Social Sciences	Humanities
Calculus I, II, III <sup>1</sup> MATH 1610, 1620, 2630	English Composition I: ENGL1010	World History I, II: HIST 1010, 1020 <sup>4</sup>	World Literature I/II (take one): ENGL 2600/2610 <sup>7</sup>
Differential Equations MATH 3690 <sup>2</sup>	English Composition II: ENGL 1020	Other Social Science (take one) ECON 2010 <sup>5</sup> , POLS 2020 <sup>6</sup>	Fine Arts (take one) MUSC 2110, THEA 2040, VISU 1000
General Physics I, II with Calculus <sup>3</sup> PHYS 2100-1, 2200-1		PSYC 2110, ANTH 2110, GEOG 2050, SOC 2000 or SOC 2007(Honors)	Ethics(take at AU): AU#: PHIL 1020 or PHIL 1040 by major <sup>8</sup>
Introduction to Engineering ENGR 1110			

1: Calculus III not required by CSCI, but can be a CSCI math elective.

2. Not required for CSCI, but can be a CSCI math elective.

3: General Physics II (Calculus-based) is not required for Biosystems. CSCI may use any one of the Biology, Chemistry, Geology or Physics sequences.

4. The sequence may be replaced by Civilization HIST 1060 and 1070. The American History sequence (HIST 2010 and 2020) is also accepted. However, this sequence does not meet Auburn SLO8, SLO9 requirements. Students who have taken American History sequence must very carefully determine which additional social science courses should be taken to meet the Auburn SLO 8&9 requirements. CIVL must choose HIST1020 or HIST1070.

5. Biosystems and Materials must choose ECON 2010.

6. CIVL must choose POLS2020.

7. The sequence may be replaced by [ENGL 2530 & 2540] Survey of English Literature I & II or [ENGL 2570 & 2580] Survey of American Literature I & II.

8. Pre-medicine and biomedical specializations in chemical engineering accept AUM PHIL 2100.

### Other Recommended Classes by Major

	AERO	BSEN	CHEN	CIVL <sup>+</sup>	CSCI <sup>+</sup>	ECPE	ELEC <sup>#</sup>	INSY	MATL	MECH	SWEN	WIRE <sup>#</sup>	WIRS <sup>#</sup>
Chemistry I: CHEM 1100-1	✓	✓	✓	✓		✓	✓	✓	✓	✓		✓	
Chemistry II: CHEM 1200-1		✓*	✓	✓					✓				
Organic I, II: CHEM 3100-1, 3200-1			✓										
Linear Algebra: MATH 2660	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓
Biology I: BIOL1010-1		✓	✓										
Biology II: BIOL 1020-1		✓*											
Statistics: STAT 4670 (AU STAT #)					✓ (3600)			✓ (3600)			✓ (3600)		
CSCI 2000 (C++)							✓					✓	
CSCI 2000 (Java) Or INFO 3000 & 3010					✓	✓					✓		✓
ENGR 1210 (Matlab)	✓	✓	✓	✓				✓	✓	✓			

\*: Not for Forest Option. <sup>+</sup>: CIVIL, CSCI require a science elective.

<sup>#</sup>: ELEC, WIRE, and the software specialization of WIRS require a science/math elective.