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

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 >=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.
✓ Have two official transcripts sent to Auburn Admissions.
✓ Send a plan of study.
✓ Attend a one-day orientation, after you are accepted at Auburn.

For more information visit
www.eng.auburn.edu
or call 334.844.4310

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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Associate Professor      Assistant Professor
310C Goodwyn Hall   310A Goodwyn Hall
(334) 244-3261       (334) 244-3322
ychen5@aum.edu       tchen1@aum.edu
### Recommended Core Classes

<table>
<thead>
<tr>
<th>Mathematics, Physics and Engineering</th>
<th>English</th>
<th>Social Sciences</th>
<th>Humanities</th>
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<tbody>
<tr>
<td>Calculus I, II, III (^1) [MATH 1610, 1620, 2630]</td>
<td>English Composition I: ENGL1010</td>
<td>World History I, II: HIST 1010, 1020 (^4)</td>
<td>World Literature I/II (take one): ENGL 2600/2610 (^7)</td>
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<td>Differential Equations MATH 3690 (^2)</td>
<td>English Composition II: ENGL 1020</td>
<td>Other Social Science (take one) ECON 2010 (^5), POLS 2020 (^6)</td>
<td>Fine Arts (take one) MUSC 2110, THEA 2040, VISU 1000</td>
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<tr>
<td>General Physics I, II with Calculus (^3) [PHYS 2100-1, 2200-1]</td>
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<td>PSYC 2110, ANTH 2110, GEOG 2050, SOCI 2000 or SOCI 2007 (Honors)</td>
<td>Ethics (take at AU): AU#: PHIL 1020 or PHIL 1040 by major (^8)</td>
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<td>Introduction to Engineering ENGR 1110</td>
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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 SLO#8, SLO#9 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

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<thead>
<tr>
<th>AERO</th>
<th>BSEN</th>
<th>CHEN</th>
<th>CIVL (^*)</th>
<th>CSCI (^*)</th>
<th>ECPE</th>
<th>ELEC (^*)</th>
<th>INSY</th>
<th>MATL</th>
<th>MECH</th>
<th>SWEN</th>
<th>WIRE (^*)</th>
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\(^*\): Not for Forest Option. \(^\#:\) CIVIL, CSCI require a science elective. \(^\#:\) ELEC, WIRE, and the software specialization of WIRS require a science/math elective.

_Last revised: Mar. 1, 2021._