How to use the sample plans of study

Different types of classes are organized by shape. Please refer to the legend for more details.

Classes that have a shaded background are classes with a significant amount of prerequisites. They need to be taken in succession with one another and therefore these classes have the least amount of flexibility in terms of moving them around to different semesters. These classes should be carefully considered when planning your course of study (especially MA 261).

Technical electives (TE, IE TE) and general education electives (GE) have the most amount of flexibility. They can be taken at any time as long as you meet the course prerequisites.

A course relationship diagram at the last page graphically shows the prerequisites and corequisites for the engineering courses. They do not include FYE courses such as ENGR131, ENGR132, MA166, PHYS172, CHM115, and CS159.

The plans assume that you enroll in the engineering program without receiving any AP, CLEP, IB or any other prior college credits. Also it assumes you do not take summer school or any other classes outside of Purdue that you may be able to receive credits for. If you receive additional college credits either at the beginning or during your studies, you may be able to gain some flexibility in planning your classes. For more information on receiving college credits, please talk to your advisor and/or the Purdue admissions website.

A list of technical electives as well as general education electives are available at the IE website.
Purdue University
School of Industrial Engineering
Undergraduate Plan of Study

4 Year (8 semesters) Plan of Study

Semester 8 (15 hrs)
IE431 TE
IE TE TE
TE GE

Semester 7 (15 hrs)
IE474 IE486 TE
TE TE GE

Semester 6 (15 hrs)
IE336 IE386 IE383 ME200 GE

Semester 5 (18 hrs)
IE332 MA266 IE335 ECE201 IE370 GE

Semester 4 (15 hrs)
IE330 MA265 PHYS241 NUCL273 GE

Semester 3 (16 hrs)
IE230 MA261 IE343 ME270 GE IE200

Semester 2 (16 hrs)
MA166 PHYS172 CS159 ENGR132 COM114

Semester 1 (14 hrs)
MA165 CHM115 ENGL106 ENGR131

First Year Engineering

Legend
- Core engineering classes
- Least flexible classes
- General Education Electives
- Technical Electives

School of Industrial Engineering
Purdue University
315 N. Grant Street, West Lafayette, IN, 47907-2023
Phone: +1 (765) 494-5400
Fax: +1 (765) 494-6802
### 3.5 Year (7 semesters) Plan of Study*

<table>
<thead>
<tr>
<th>Semester 7 (18 hrs)</th>
<th>Semester 6 (18 hrs)</th>
<th>Semester 5 (18 hrs)</th>
<th>Semester 4 (18 hrs)</th>
<th>Semester 3 (16 hrs)</th>
<th>Semester 2 (19 hrs)</th>
<th>Semester 1 (17 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IE431</td>
<td>IE474</td>
<td>IE TE</td>
<td>IE TE</td>
<td>GE</td>
<td>GE</td>
<td>MA165</td>
</tr>
<tr>
<td>IE336</td>
<td>IE383</td>
<td>IE386</td>
<td>IE335</td>
<td>ECE201</td>
<td>IE370</td>
<td>CHM115</td>
</tr>
<tr>
<td>MA265</td>
<td>PHYS241</td>
<td>NUCL273</td>
<td>MA266</td>
<td>IE000</td>
<td>IE200</td>
<td>ENGL106</td>
</tr>
<tr>
<td>IE330</td>
<td>MA261</td>
<td>IE343</td>
<td>ME270</td>
<td>IE200</td>
<td>COM114</td>
<td>ENGR131</td>
</tr>
<tr>
<td>IE230</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MA166</td>
<td>PHYS172</td>
<td>CS159</td>
<td>ENGR132</td>
<td>GE</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>First Year Engineering</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*To make this plan more feasible, it is recommended that the student comes in with several college level credits (AP, IB, CLEP etc) or take classes over the summer.

**Legend**
- Core engineering classes
- Least flexible classes
- General Education Electives
- Technical Electives

---

School of Industrial Engineering
Purdue University
315 N. Grant Street, West Lafayette, IN, 47907-2023
Phone: +1 (765) 494-5400
Fax: +1 (765) 494-6802
4.5 Year (9 semesters) Plan of Study

Legend:
- Core engineering classes
- Least flexible classes
- General Education Electives
- Technical Electives

Semester 1 (14 hrs)
- MA165
- CHM115
- ENGL106
- ENGR131

Semester 2 (16 hrs)
- MA166
- PHYS172
- CS159
- ENGR132
- COM114

Semester 3 (13 hrs)
- IE230
- MA261
- IE200
- ME270
- GE

Semester 4 (15 hrs)
- IE330
- MA265
- PHYS241
- NUCL273
- GE

Semester 5 (15 hrs)
- IE332
- MA266
- IE335
- IE370
- GE

Semester 6 (15 hrs)
- IE336
- IE383
- IE343
- ECE201
- GE

Semester 7 (12 hrs)
- IE474
- ME200
- IE386
- GE

Semester 8 (12 hrs)
- IE486
- IE TE
- TE
- GE

Semester 9 (12 hrs)
- IE431
- IE TE
- TE
- GE

First Year Engineering

Engineering
Notes

• This relationship diagram assumes you have finished the FYE program. The following classes are not shown: ENGR131, ENGR132, MA166, PHYS 172, CHM 115, CS159
• To satisfy the IE technical electives requirement, you must either
  1. Take IE 470 or IE 484, and one IE course at 500-level
  2. Take IE 470 and IE 484.
• Red lines refer to co-requisites