## RECOMMENDED SCHEDULE

**Official course requirements based upon semester admitted into the program.**

### First Year

**Fall**
- 3150:151 *Principles of Chemistry I* 3
- 3150:152 Principles of Chemistry I Lab 1
- 3300:111 **English Composition I** 3
- 3450:221 *Analytic Geometry-Calculus I* 4
- 4200:101 Tools for Chemical Engineering 2
- 4200:110 Proj. Management&Teamwork I 1
- 14

**Spring**
- 3150:153 *Principles of Chemistry II* 3
- 3150:154 Qualitative Analysis 2
- 3450:222 *Analytic Geometry-Calculus II* 4
- 4200:121 Chemical Engr. Computations 2
- +2nd Writing Course 3
- 17

**Summer**
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### Second Year

**Fall**
- 3150:263 Organic Chemistry I 3
- 3150:265 Organic Chemistry Lab 2
- 3450:223 *Analytic Geometry-Calculus III* 4
- 3650:291 *Elementary Classical Physics I* 4
- 4200:200 Material and Energy Balances 2
- 4200:210 Proj. Management&Teamwork II 1
- 18

**Spring**
- 3150:264 Organic Chemistry II 3
- 3450:335 Intro. to Ordinary Differential Equations 3
- 3650:292 *Elementary Classical Physics II* 4
- 4200:225 Equilibrium Thermodynamics 4
- 4300:201 *Statics* 3
- 4100:300 Cooperative Education Work Period
- 17

**Summer**
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### Third Year

**Fall**
- 3150:313 Physical Chemistry I 3
- 3250:244 Intro. to Economic Analysis (Social Sci) 3
- 4200:310 Proj. Management&Teamwork III 1
- 4200:321 Transport Phenomena 3
- 4200:341 Process Economics 2
- 4200:353 Mass Transfer Operations 3
- Advanced Math Elective 2
- 17

**Spring**
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**Summer**
- 3150:314 Physical Chemistry II 3
- +General Ed or Honors Distribution 3
- 4100:301 Cooperative Education Work Period
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### Fourth Year

**Fall**
- 4200:305 Materials Science 2
- 4200:330 Chemical Reaction Engineering 3
- 4200:351 Fluid & Thermal Operations 3
- 4200:360 Chemical Engineering Lab 3
- *General Ed or Honors Distribution 3
- 14

**Spring**
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**Summer**
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### Fifth Year

**Fall**
- 4200:410 Proj. Management&Teamwork IV 1
- 4200:435 Process Analysis & Control 3
- 4200:441 Process Design I 3
- *General Ed or Honors Distribution 3
- Advanced Chemistry Elective 3
- Honors Project 2
- 15

**Spring**
- 4200:442 Process Design II 3
- 4400:307 Basic Electrical Engineering 4
- 4200:xxx Chemical Engineering Elective 3
- 4200:xxx Chemical Eng. Design Elective 3
- *General Ed or Honors Distribution 3
- 16

**Summer**
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### College of Engineering Notes

*Credit hours shown for General Education or Honors Distribution are general guidelines only. These courses should be chosen in accordance with the appropriate General Education curriculum guide (for non-honors students) or Honors Distribution (for honors students). Honors students must also ensure that their course selections meet additional requirements not shown on this curriculum guide.

Gen Ed Program - [https://www.uakron.edu/general-education/](https://www.uakron.edu/general-education/)

Honors Distribution - [https://www.uakron.edu/honors/curriculum/](https://www.uakron.edu/honors/curriculum/)

*Honors sections may be available; check the schedule of classes.

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### Chemical Engineering Program Notes

See Chemical and Biomolecular Engineering Departmental advisors for approved chemical engineering electives

*The Chemical and Biomolecular Engineering Department recommends that English Composition I be used to satisfy writing course requirement but other choices are available. See the General Education Program for details.*

*Check General Education Program or Honors Distribution to find courses that satisfy the 2nd writing course requirement.*

In addition to meeting all other degree requirements, a minimum of 137 credits must be completed.