

CHEMICAL ENGINEERING SK 8/25/2008

Freshman Year (many students take a lib ed elective in the May or Summer term)

Fall Semester

Chem 1021 Chem Prin I	4
Math 1371 (or 1271) Calc I <i>(1371 Fall only)</i>	4
Phys 1301 Intro Phys I <i>[&Math 1271 or &Math 1371]</i>	4
UD EngC or Rhet Freshman Writing - Lib Ed*	3 or 4

Spring Semester

Chem 1022 Chem Prin II <i>[Chem 1021]</i>	4
Math 1372 Calc II <i>[C or better in 1271 or 1371]</i>	4
UD Phys 1302 Intro Phys II <i>[&Math 1272 or &1372, Phys 1301]</i>	4
Lib Ed** (e.g. Biol 1009)	3 or 4

*Freshman composition is required for upper division.

** Biol 1009 is recommended in the first or second year.

Sophomore Year

Fall Semester

Chem 2301 Org Chem I <i>[Chem 1022]</i>	3
\$ Chem 3502 Quantum Chem 11:15 <i>[1022, Math 1272 or 1372, Phys 1302]</i>	3
\$ MatS 3011 Intro MatSci 2:30 <i>[Chem 1021, Math 1272, Phys 1302]</i>	3
UD Math 2374 Multivar. Calc and Vec An <i>[Math 1272 or 1372]</i>	4
Lib Ed*** (e.g. Hist)	3 or 4

Spring Semester (changes after 2008)

UD Chem 2302 Org Chem II <i>[Chem 2301]</i>	3
UD Chem 3501 Chemical Thermo 11:15 <i>[Chem 1022, Math 2263 or 2374, Phys 1302]</i>	3
UD Math 2373 Lin alg/diff eqs <i>[Math 1272 or 1372]</i>	4
UD ChEn 4001 Matl and En Bal 3:35 <i>[Chem 2302 or &, Chem 3501 or &, Math 2374 or &, Math 2373 or &, Phys 1302]</i>	4
Lib Ed*** (e.g., Soc Sci I)	3

& Registrar symbol for concurrent registration

*** For eng degrees, the two Soc Sci, the Hist, the Lit, and the Other Hum lib eds must fill both a core and a theme to guarantee 4-year degree program. These may be taken S/N.

For some courses, prereqs and MWF lecture times are shown in italics.

Shaded courses are offered only once a year.

UD You must have at least a 2.60 technical GPA for admission to upper division Chemical Engineering. This GPA includes all calculus, physics, chemistry, computer science, and engineering courses. In addition, courses with UD need to be completed before you apply, unless you have at least a 2.90 tech GPA and the courses in progress.

For students with ChEn 4001 on or before Spring 2008.

Junior Year

Fall Semester (changes after 2008)

Chem 2311 Organic Lab <i>[Chem 2302 or &2302]</i>	4
ChEn 3701 Biomolec Engrg 8 <i>[Chem 2302, Math 2373, 4001]</i>	3
ChEn 4005 Fluid and Heat Transprt <i>10:10 [UD ChEn, 4001]</i>	4
ChEn 4101 Chem Eng Thermo <i>1:25 [UD ChEn, 4001, Chem 3501]</i>	4

Chem/ChE dbl mjrs should take Chem 4701 12:20 this semester and may delay ChEn 3701

Spring Semester (changes after 2009)

Chem 2121 Analyt Chem 12:20 <i>[2302, 2311, 3501, ChEn only]</i> <small>Earlier Chem 4121 or 2101/2111 also okay.</small>	3
ChEn 4006 Mass Tran & Sepns <i>1:25 [UD ChEn, ChEn 4001, 4005, 4101]</i>	4
ChEn 4102 React Kin & Eng. <i>11:15 [UD ChEn, 4001, 4101]</i>	4
ChEn 4201 Comp Mthds in ChEn <i>10:10 [UD ChEn, 4001, 4005, 4006 or &]</i>	3
Lib Ed*** (e.g. Soc Sci II)	3

Senior Year

Fall Semester (changes after 2009)

ChEn 4401W Chem Eng. Lab I <i>12:20 [UD ChEn, 4005, 4006, 4101, 4102, Chem 2311, Chem 4121, Engl Comp]</i>	3
ChEn 4501W Chem Eng Proc Des I <i>9:05 [UD ChEn, 4005, 4006, 4101, 4102, 4201 Chem 2311, Chem 4121, Engl Comp]</i>	3
@ Tech elective I	3
@ Tech elective II	3
Lib Ed*** (e.g. Lit)	3

Spring Semester (changes after 2010)

ChEn 4402W Chem Eng Lab II <i>9:05 Mon [UD ChEn, 4006, 4101, 4401W]</i> <small>switches to 9 Spring 09</small>	2
ChEn 4502W Chem Eng Proc Des II <i>9:05 Wed, Fri [UD ChEn, 4501]</i> <small>switches to 9 Spring 09</small>	2
ChEn 4601 Process Control <i>8 [UD ChEn, ChEn 4102]</i> <small>switches to 8 Spring 09</small>	3
@ ChEn 4214 Polymers 11:15 * <i>[UD, MatS 3011, [MatS 4001 or ChEn 4101]]</i> <small>MatS 4214 can be taken earlier</small>	3
@ Tech elective III	3
Lib Ed*** (e.g. Art/Hum)	3

Courses with a double-lined border are Writing Intensive (WI) courses. Those shown here more than suffice for the WI requirements.

\$ Recommended at this position in the plan, but can be delayed with advisor approval.

@ Preapproved or with DUS/ChEn-advisor approval. Several restrictions apply. Max 2 cr. nontechnical, max 6 cr. transfer, even if approved. Tech electives must be 9 cr. * in addition to MatS 4214 (or DUGS approved substitute to MatS 4214). As of 2007-08 academic year ChEn 4214 is offered in the Spring.