

**CHEMICAL ENGINEERING MAJOR**  
**Program Tracking Sheet Based on AY 2013-14 Degree Requirements and Course Offerings**

Name:	Class Year:
Advisor:	2 <sup>nd</sup> Major:

**NOTES:** Minimum total academic credit = 15 2/3 units  
 Residency Req.: Min. of 8 units must be completed at WPI

**HUMANITIES AND ARTS REQUIREMENT (2 units)**

**Depth Component**

Students must complete at least three thematically-related courses prior to the culminating Inquiry Seminar or Practicum in the same thematic area. At least one of the three courses should be at the 2000-level or above.

	Course	Term	Grade	Units
1				1/3
2				1/3
3				1/3
4	HU 3900 or HU 3910			1/3

**Breadth Component**

Students must take at least one course outside the grouping in which they complete their depth component. To identify breadth, courses are grouped in the following manner.

- i. art/art history, drama/theatre, and music (AR, EN/TH, MU);
- ii. foreign languages (SP, GN, AB, CN);
- iii. literature and writing rhetoric (EN, WR, RH);
- iv. history and international studies (HI, HU);
- v. philosophy and religion (PY, RE).

Exception: May take all six courses in a foreign language

5				1/3
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**Humanities Elective**

6				1/3
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**PHYSICAL EDUCATION (4 PE classes = 1/3 unit)**

7				1/12
				1/12
				1/12
				1/12

**SOCIAL SCIENCE (2/3 units) ECON, ENV, GOV, PSY, SD, SOC, SS, STS and ID2050**

8				1/3
9				1/3

**THE INTERACTIVE QUALIFYING PROJECT (1 unit)**

10				1/3
11				1/3
12				1/3

**MATHEMATICS AND BASIC SCIENCE REQUIREMENT (4 units)**

Must include 5 math courses including differential and integral calculus and differential equations.

Must include 3 courses in chemistry, 2 courses in physics, and 1 course in biology or biochemistry.

13	MA			1/3
14	MA			1/3
15	MA			1/3
16	MA			1/3
17	MA			1/3
18	CH			1/3
19	CH			1/3
20	CH			1/3
21	PH			1/3
22	PH			1/3
23				1/3
24				1/3

**ENGINEERING SCIENCE AND DESIGN REQUIREMENT (6 units)**

All at 2000 or higher level with the exception of CHE 1101, includes graduate courses in BME, CHE, CE, ECE, FP, ME, MFE, MTE, RBE, and SYS.

**ENGINEERING STUDY OUTSIDE MAJOR (1/3 unit)**

25				1/3
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**MAJOR QUALIFYING PROJECT (1 unit)**

26				1/3
27				1/3
28				1/3

**CORE CHEMICAL ENGINEERING COURSES (4 units minimum)**

Must include at least 4 units of core chemical engineering courses: CHE 2011, 2012, 2013, 2014, 3201, 3501, 4401, 4402, 4403, 4404, 4405, ES 3004, 3003, 3002. Must include CHE 4404 unless capstone design accounted for elsewhere.

29				1/3
30				1/3
31				1/3
32				1/3
33				1/3
34				1/3
35				1/3
36				1/3
37				1/3
38				1/3
39				1/3
40				1/3

**ENGINEERING ELECTIVES (2/3 unit)**

41				1/3
42				1/3

**ADVANCED CHEMISTRY AND NATURAL SCIENCE (5/3 units)**

Any 2000 level and above BB, CH, PH, or GE courses and CH 1040.

Must include 3 advanced CH courses at 2000 level or above.

Up to 2/3 units of Advanced Chemistry and Natural Science may be double counted under both Advanced Chemistry and Basic Science

43	CH			1/3
44	CH			1/3
45	CH			1/3
46				1/3
47				1/3