

Student's Name: \_\_\_\_\_ Uni \_\_\_\_\_

**Undergraduate Study Plan (For students taking new math sequence that includes APMA E2000 + math elective)**

**Dept. of Chemical Engineering, Columbia University (Revision 12/7/2018 DVE)**

All Chemical Engineering undergraduates must complete this form and have it approved by an Undergraduate Committee advisor. This form is to be completed before meeting with your advisor.

**Instructions:**

- 1) Fill in all courses that you have taken, and those courses that you plan to take during the remainder of your time at Columbia.
- 2) Where course numbers are listed, circle the course numbers corresponding to courses you have already completed.
- 3) Where blanks are provided, write in the course number (and name, if requested). For these entries, circle the course numbers for courses you have completed, and write "IP" next to courses that are currently in progress.
- 4) If you placed out of any courses, circle the course number and write "AP" next to the circle to indicate advanced placement.

**1. Non-Technical Course Requirements\***

**Points**

a. **University Writing:** ENGL CC1010(3) \_\_\_\_\_

b. **Economics:** ECON UN1105(4) and UN1155(0) Recitation \_\_\_\_\_

c. **Art/Music Humanities** (choose one): HUMA UN1121(3) or HUMA UN1123(3) \_\_\_\_\_

**2. Core Humanities Requirement\*** (choose one two-course sequence):

Sequence 1: Literature Humanities: HUMA CC1001(4) and HUMA CC1002(4) \_\_\_\_\_

Sequence 2: Contemporary Civilization: COCI CC1101(4) and COCI CC1102(4) \_\_\_\_\_

Sequence 3: Choose two Global Core courses from list of approved courses in Columbia College Bulletin (6-8 points)

Course #: \_\_\_\_\_ Course #: \_\_\_\_\_ \_\_\_\_\_

**3. Non-Technical Electives\*** ( List of approved courses in SEAS Bulletin, total 9-11 points)

Course #: \_\_\_\_\_ Course #: \_\_\_\_\_ Course #: \_\_\_\_\_ \_\_\_\_\_

\*Note: the total credits from sections 1., 2., and 3. must add up to at least 27 credits

**4. Engineering Fundamentals**

a. **The Art of Engineering:** ENGI E1102(4) \_\_\_\_\_

b. **Intro to Comp for Eng/App Sci (Python-based):** ENGI E1006 (3) \_\_\_\_\_

**5. Physical Education:** PHED UN1001(1) and PHED UN1002(1) \_\_\_\_\_

**6. Mathematics Requirement**

a. **Calculus:** MATH UN1101(3) UN1102(3) APMA E2000 (4) \_\_\_\_\_

b. **ODE** (choose one course): MATH UN2030(3) or APMA E2101(3) \_\_\_\_\_

c. **Math Elective\*:** Course #: \_\_\_\_\_ \_\_\_\_\_

\*Choose from ORCA 2500, APMA(E3101, E3102, E4001, E4150, or E4300), MATH UN2010, , STAT GU 4001, or another course approved by the major advisor.

**7. Chemistry Requirement (Choose one track) (note: the university division designator for all of these courses is UN)**

Track C1: 1403(4) 1404(4) 1500(3) 2443(4) 2495(1.5)^ 2496(1.5)^ \_\_\_\_\_  
Gen. Chem I Gen. Chem II Chem. Lab Orgo I. Orgo Lab I Orgo Lab II

Track C2: 1604(4) 1507(3) 2443(4) 2495(1.5)^ 2496(1.5)^ \_\_\_\_\_  
Int. Chem Int. Chem Lab Orgo I. Orgo Lab I Orgo Lab II

Track C3: 2045(4) 2046(4) 1507(3) UN2545(3) \_\_\_\_\_  
Int. Orgo Int. Orgo Int. Chem Lab Int. Orgo Lab

^note on orgo lab: if you are a senior, then you may have taken the 3 credit course UN3543 and you can circle both 2495 and 2496 in this form. Also note that the intensive organic chemistry lab course UN2545(3) can count in place of 2495 and 2496.

