1. Non-Technical Course Requirements*  
   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)  ____
   Track C2: 1604(4) 1507(3) 2443(4)  ____
   Int. Chem Int. Chem Lab Orgo I.  
   Track C3: 2045(4) 2046(4) 1507(3)  ____
   Int. Orgo Int. Orgo Int. Chem Lab.  

8. Natural Science Laboratory (at least 3 pts total)*: Course #:__________ Course #:__________  
*Choose from CHEM UN2493(1.5), CHEM UN2496(1.5), CHEM UN2543(3), CHEM UN2545(3), CHEM UN3085(3), BIOL 2501(3), EEEB 3015 (3), or another course approved by the major advisor.
9. Physics Requirement: (Choose one track)

Track P1: PHYS UN1401(3) UN1402(3) Lab-UN1493(3) _______
Track P2: UN1601(3.5) UN1602(3.5) Lab-UN1493 (3) _______
Track P3: UN2801(4.5) UN2802(4.5) Lab-W3081(2) _______

10. Chemical Engineering Requirements:

<table>
<thead>
<tr>
<th></th>
<th>Fall</th>
<th>Spring</th>
<th>Points</th>
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</thead>
<tbody>
<tr>
<td>First Year</td>
<td>CHEN E1000(1)</td>
<td><em><strong>OPTIONAL for class of ‘24 and ‘25</strong></em></td>
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<tr>
<td>Second Year</td>
<td>CHEN E2100(3)</td>
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<tr>
<td>Third Year</td>
<td>CHEN E3110(3)</td>
<td>CHEE E3010(3)</td>
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<tr>
<td>Fourth Year</td>
<td>CHEE E4140(3)</td>
<td>CHEN E4300(3)</td>
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</tbody>
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11. Technical Electives: (7 courses total) (SEE SPREADSHEET FOR ELIGIBLE COURSES IN EACH CATEGORY)

a. THERMODYNAMICS ELECTIVE course within chemical engineering
   1. Course name: ____________________________
      Course #: ____________________________

b. TRANSPORT ELECTIVE course within chemical engineering
   1. Course name: ____________________________
      Course #: ____________________________

c. Technical elective course within chemical engineering (CHEN, CHEE, MECH, APCH, BMCH, or CHAP)
   1. Course name: ____________________________
      Course #: ____________________________

d. Engineering courses outside chemical engineering (not CHEN, CHEE, or CHAP)
   4. Course name: ____________________________
      5. Course name: ____________________________
      Course #: ____________________________
      Course #: ____________________________

e. Advanced Science courses (Chemistry, Physics or Biology content– one must be outside of SEAS)
   6. Course name: ____________________________
      7. Course name: ____________________________
      Course #: ____________________________
      Course #: ____________________________

12. Additional Courses:

   _______ _______ _______ _______ _______

   TOTAL POINTS*: _______

*Total points must be ≥128 credits for the normal 4 year track, or ≥60 credits for Combined Plan students

Advisor Signature ___________________________ Date ___________ Student Signature ___________________________ Date ___________