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 #: _________  

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 UN2496C(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) *Optional for classes of ’24 &amp; ’25</td>
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<td></td>
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<tr>
<td>Second Year</td>
<td>CHEN E2100(3)</td>
<td>CHEN E3020(3)</td>
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</tbody>
</table>
| Third Year     | CHEN E3110(3)  
CHEE E3010(3) | CHEN E4230(3)             |        |
| Fourth Year    | CHEE E4140(3)  
CHEN E4300(3) | CHEN E3810(3)  
CHEN E4500(4) |        |

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: __________