FOR CURRENT RUTGERS CBE STUDENTS

Combined Bachelor’s/Master’s Degree Program
Chemical & Biochemical Engineering

The objectives of the combined bachelor’s/master’s degree program in the Department of Chemical & Biochemical Engineering are:

1) To provide an expedited graduate applications process for highly qualified CBE students
2) To provide the added depth of knowledge inherent in graduate course work
3) To enable our students to receive both Bachelor and Master Degrees in a shortened timeframe
4) To encourage our top students to pursue graduate study

Students may apply to either the Master of Science (MS) or the Master of Engineering (ME) in Chemical Engineering in combination with the BS in Chemical Engineering. It may also be possible to pursue the MS or ME in Chemical Engineering in combination with another undergraduate major. Please consult the Graduate Director to assess individual situations for appropriateness.

Eligibility

Students with a GPA of 3.2 or higher are eligible to apply during their sixth semester (spring semester of Junior year). The applicant must have completed at least 104 credits of coursework at the end of the sixth semester and complete six credits of graduate course work in the senior year. Note that meeting these eligibility requirements does not guarantee admission.

General Procedures

To apply to the BS/MS or BS/ME program, the student needs to submit a completed Combined Bachelor’s/Master’s application form, an academic transcript, a personal statement, and one letter of recommendation to the Chemical Engineering Department office. GRE (general) test scores and application fee are waived.

Students are admitted based on the requirements that they (i) maintain a 3.2 average throughout their undergraduate studies (otherwise they can be dropped from the program), (ii) receive their BS degree at the end of the fourth year, and (iii) make progress on their graduate degree during their fourth year by completing at least 6 credits of coursework. Once a student completes their undergraduate requirements and receives their official BS degree from Rutgers, they will be formally considered a graduate student.

Students must then complete the graduation requirements of the School of Graduate Studies (SGS), which consists of a total of 30 credits of graduate work, some of which will have been taken simultaneously with undergraduate courses (i.e. in the senior year) but not counted towards the BS degree. In the MS program, students can choose Plan A (thesis option, 24 course credits plus six research credits, and successful defense of thesis) or Plan B (non-thesis option, 30 course credits). The ME program is a non-thesis degree (30 course credits).

\[1\] It is important to note that SGS does not permit double dipping, that is, courses used to satisfy graduation requirements for the BS degree cannot be counted towards satisfying graduation requirements for the master’s degree. Hence, the graduate level courses taken in the senior year cannot be used to satisfy the undergraduate degree requirements and then applied again toward graduate requirements.
Application for Combined BS/Master’s Degree Program in Chemical Engineering

Applying for (check one):  
☐ B.S./M.S.  
☐ B.S./M.E. (Pharmaceutical Engineering curriculum)

Instructions:
1) Fill out application form (p. 2 and 3 of this application package)
2) Attach a copy of your transcript (can be downloaded from the RU transcripts web site)
3) Attach a brief (one page) personal statement outlining your professional goals
4) Submit items (1) through (3) to the CBE Department Office, EN C-226.
5) In addition, one letter of recommendation must be submitted to the Graduate Director via email or in a signed, sealed envelope

Name: ________________________________ RUID No.: ________________________________
Home mailing address: ________________________________________________________________

Campus mailing address: ________________________________________________________________
Email: __________________________ Phone no.: ________________________________
Overall GPA: __________________________ Major GPA: __________________________
Semester/Year started at Rutgers: __________________________ Expected graduation date: __________
Number of credits completed so far: __________ Number of major credits completed to date: __________
Name of reference letter writer: __________________________

Signature: __________________________ Date: __________________________

For Office Use Only: Admitted Rejected Date: __________________________
Comments: __________________________

Graduate Program Director: __________________________
**Application Check List**

Your application package must contain the following:

- [ ] Completed application form (p.2 and 3 of this package)
- [ ] Personal statement
- [ ] Rutgers transcript (printed on-line)
- [ ] Recommendation letter in signed, sealed envelope or emailed to the Graduate Director
- [ ] Number of undergraduate credits completed to date ________
- [ ] Number of major credits (with prefix M) completed to date ________
- [ ] Cumulative GPA ________
- [ ] Major GPA ________

Check off the courses that you have completed:

**Sophomore Year**

<table>
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<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Grade</th>
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<tbody>
<tr>
<td>14:155:201</td>
<td>Material &amp; Energy Balances</td>
<td>M 3.0</td>
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<tr>
<td>14:155:208</td>
<td>Thermodynamics I</td>
<td>M 3.0</td>
</tr>
<tr>
<td>14:155:210</td>
<td>Biological Foundations</td>
<td>M 3.0</td>
</tr>
<tr>
<td>14:155:298</td>
<td>Professional Skills</td>
<td>M 1.0</td>
</tr>
<tr>
<td>01:160:307</td>
<td>Organic Chemistry I</td>
<td>4.0</td>
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<tr>
<td>01:160:308</td>
<td>Organic Chemistry II</td>
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**Junior Year**

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<tbody>
<tr>
<td>14:155:303</td>
<td>Transport Phenomena I</td>
<td>M 3.0</td>
</tr>
<tr>
<td>14:155:307</td>
<td>Computational Methods</td>
<td>M 3.0</td>
</tr>
<tr>
<td>14:155:309</td>
<td>Thermodynamics II</td>
<td>M 3.0</td>
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<tr>
<td>01:160:311</td>
<td>Organic Chemistry Lab</td>
<td>2.0</td>
</tr>
<tr>
<td>01:640:421</td>
<td>Advanced Calc. for Eng.</td>
<td>3.0</td>
</tr>
<tr>
<td>14:155:304</td>
<td>Transport Phenomena II</td>
<td>M 3.0</td>
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<td>14:155:324</td>
<td>Separation Processes</td>
<td>M 3.0</td>
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<td>14:155:441</td>
<td>Kinetics</td>
<td>M 3.0</td>
</tr>
<tr>
<td>14:635:407</td>
<td>Mechanical Properties of Materials</td>
<td>M 3.0</td>
</tr>
</tbody>
</table>

List any other Major Courses (with prefix M) that you have completed.

[ ] ___:___:___ ____________________________ M ___
[ ] ___:___:___ ____________________________ M ___
[ ] ___:___:___ ____________________________ M ___
[ ] ___:___:___ ____________________________ M ___
[ ] ___:___:___ ____________________________ M ___