

## Certificate of Departmental Approval

### Master of Science in Engineering Degree Program in Chemical and Biomolecular Engineering (Essay-Based)

Name: \_\_\_\_\_ JHU ID: \_\_\_\_\_

Faculty Advisor: \_\_\_\_\_

Graduation Date (semester/year): \_\_\_\_\_

Plans after graduation: \_\_\_\_\_

Undergraduate institution: \_\_\_\_\_ Undergraduate major: \_\_\_\_\_

You must prove proficiency in transport phenomena, kinetics, and thermodynamics. Please indicate how you met each requirement by checking the appropriate boxes below:

#### Transport Phenomena Proficiency:

540.304 Transport Phenomena II at JHU	540.652 Advanced Transport Phenomena at JHU	A passing grade in a similar course at another institution (a transcript is required and a syllabus may be required)
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#### Kinetics Proficiency:

540.301 Kinetic Processes at JHU	545.643 Chemical Reaction Engineering at JHU	540.671 Advanced Thermodynamics and Kinetics in Practice at JHU	A passing grade in a similar course at another institution (a transcript is required and a syllabus may be required)
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#### Thermodynamics Proficiency:

540.204 Applied Physical Chemistry at JHU	540.630 Thermodynamics & Statistical Mechanics at JHU	540.671 Advanced Thermodynamics and Kinetics in Practice at JHU	A passing grade in a similar course at another institution (a transcript is required and a syllabus may be required)
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#### Six graduate level courses (minimum of four in ChemBE 540.6XX)

Course No.	Course Title	Grade	Sem/Year

**Minimum of one semester of graduate seminar and safety course** (EN.500.401 or EN.540.490 if taken as an undergraduate)

Course No.	Course Title	Grade	Sem/Year

**Written thesis, approved by the committee and presented to the department**

**Thesis Title:** \_\_\_\_\_

**Notes:**

- A) All courses must be completed with an average grade of B.
  - B) When this checklist has been completed (TYPED, not handwritten), it should be returned to the mailbox of the Academic Program Coordinator.
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This is to certify that \_\_\_\_\_ has satisfied all of the academic requirements laid down by the Department for granting a Master of Science in Engineering Degree in the Department of Chemical and Biomolecular Engineering.

\_\_\_\_\_  
Advisor's Signature

\_\_\_\_\_  
Date