**Executive Summary of Program Assessment**

**Campus:** MU

**College/School:** College of Engineering

**Academic Unit:** Chemical Engineering

**Date Submitted:** 02/15/13

**Person Responsible for Success of Program:** Baolin Deng, Department Chair

**Person Submitted Executive Summary:**

Patricia Okker, Faculty Fellow for Program Assessment and Accreditation, Office of the Provost

**Degree Programs**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Degree (e.g., BS, MA, PhD)** | **Degree Program** | **Enrollment** | | **Number of Degrees Awarded** | |
| **Most Recent Fall Semester**  **Fall 2011** | **5-Year Fall Semester Average** | **Most Recent Academic Year**  **Fall 2011** | **5-Year Average** |
| BS | Chemical Engineering | 240 | 192 | 32 | 31 |
| MS | Chemical Engineering | 16 | 10 | 5 | 2.4 |
| PhD | Chemical Engineering | 8 | 8 | 3 | 3.2 |

**Changes Since Last Review**

* Increased undergraduate enrollment by approximately 15% per year (or a cumulative increase of 74% in a four-year time period).
* Changes in faculty composition and size: among 10 tenured/tenure-track faculty in 2005, only 4 are still with the department. Size of tenured and tenure-track faculty has ranged from 4 to 7 during this 5-year period.
* Streamlined curriculum, with emphasis on experiential learning and hybrid online/in-class delivery.
* Established research focus areas on energy and materials.
* Established effective Industrial Advisory Board (IAB).

**Strategies or Plans for Improving Program** (selected)

* Develop innovative approaches to teaching, including online teaching and problem-based learning.
* Optimize assignment of courses to enhance both instruction and research productivity.
* Increase research expenditures.
* Enhance development activities by working with college development offices and establishing a Chemical Engineering Academy of Distinguished Alumni.
* Increase faculty size.