

University of Washington

College of Engineering

**DEPARTMENT OF
MATERIALS SCIENCE & ENGINEERING**

**Program Self-study Report For Program
in
Metallurgical Engineering**

ABET EC 2000 Accreditation

Autumn 2001

ABET Self-Study 2000 - Metallurgical Engineering

Part A: Background Information

1.1 Degree Title

This self study report is for the Metallurgical Engineering program in the Department of Materials Science and Engineering. Students in this program receive the degree of Bachelor of Science in Metallurgical Engineering.

In addition to the Bachelor of Science in Metallurgical Engineering, the Department also offers a program leading to the Bachelor of Science in Ceramic Engineering. The Department's two degree programs are similar in that they have identical junior year course requirements, where all Department majors take identical required courses. In the senior year, the programs diverge with a set of required specialty courses each in Metallurgical Engineering or Ceramic Engineering. Other senior year courses are common and students may take any such courses as electives.

Beginning with the entering junior class of Fall 2002, students will be admitted only into a common degree program, Bachelor of Science in Materials Science and Engineering. This common degree program is an evolution from the current degree program, with a required core similar to the current core, plus opportunities for students to specialize in specific areas, including Metallurgical Engineering and Ceramic Engineering, as well as in areas such as electronic materials, polymers or composite materials. Faculty expertise has been expanded to enable this broader program.

The development of this common degree program is based on feedback from students' employers and alumni who have indicated a need for a broader materials education to meet the challenges of today's and tomorrow's technologies. Because this new degree program is an evolution from the current programs, ABET will be asked to transfer accreditation from the current two programs to this one common degree program when it is fully implemented.

1.2. Program Modes

This is a day program only. Students may participate in co-op experiences as part of the program. Distance learning is provided by the department at the MS degree level only.