The University Senate of Michigan Technological University

Proposal 11-09

(Voting Units: Academic)

A Proposal for a Name Change in an Academic Program from "B. S. in Business Administration with a Concentration in Operations and Systems Management" to "B. S. in Operations and Systems Management"

1. Program Description

The proposed Operations and Systems Management B.S. degree to be offered by the School of Business and Economics (SBE) is a spin-off of the current Bachelor of Science Degree in Business Administration (BSBA) with an Operations and Systems Management *concentration*. The proposal is to award a B.S. with a *major* in Operations and Systems Management. The BSBA was initiated at Michigan Technological University on February 25, 1955. Graduates are prepared for careers in industry, consulting, nonprofit management, or government. The BSBA currently offers concentrations in six areas: Accounting, Finance, Management, Marketing, Management Information Systems and Operations and Systems Management. All students in the BSBA program take a common set of core courses. The curriculum develops strong quantitative and analytical skills which prepare students for the constantly changing demands of a technology-oriented society, as well as the teamwork, leadership and planning skills needed to excel in organizations. The curriculum offers a strong foundation in science, mathematics, humanities, social sciences, and computer science during the first two years, a comprehensive common core of business and economics courses during the third year, and a focused concentration in a field of business during the fourth year.

2. Rationale

SBE graduates are currently labeled and marketed as having a degree (B.S.) with a major in business administration (BA), hence the BSBA degree. Thus, many of the SBE students who have an Operations and Systems Management concentration are unlikely to capture the attention of prospective employers. Having a B. S. degree with a major in Operations and Systems Management adds credibility and recognition to the B. S. degree and is consistent with other Michigan universities (Related Programs). We anticipate that having an Operations and Systems Management major will increase job placement rates at graduation.

3. Related Programs

Central Michigan University: Operations Management Major

Ferris State University: BS Operations and Supply Management Program

University of Michigan- Ann Arbor: BBA Operations and Management Science Concentration

University of Michigan-Flint: BBA Operations Management Concentration

4. Projected Enrollment

Currently, we have 3 students seeking an Operations and Systems Management concentration. Adopting an Operations and Systems Management major should increase this number due to higher job placement rates.

5. Scheduling Plans

The Operations and Systems Management B.S. will be a regular on-campus program offering.

6. Curriculum Design

The Operations and Systems Management B.S. retains the curriculum design currently in place for the BSBA with an Operations and Systems Management concentration. Two GPAs will be calculated: a cumulative (overall) GPA and a School GPA consisting solely of Business Administration (BA) and Economics (EC) courses.

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Required CORE Courses

BA 1100	Introduction to Business	3			
BA 1200	IS/IT Fundamentals	3			
BA 2110	Quantitative Problem Solving	3			
BA 2330	Accounting 1	3			
BA 2340	Accounting 2	3			
BA 2500	Business Law	3			
BA 2700	Business Problem Solving	3			
BA 3200	IS/IT Management	3			
BA 3400	Principles of Finance	3			
BA 3610	Operations Management	3			
BA 3700	Organizational Behavior	3			
BA 3800	Principles of Marketing	3			
BA 4700	Strategic Management	3			
EC 2001	Principles of Economics	3			
EC 3300	Industrial Organization	3			
	Credit Total	45			
Required Courses within major					
BA 3600	Quality Management	3			
BA 3620	Project Management		3		
BA 4620	Supply Chain Management		3		
BA 4630	Operations Strategy		3		

Credit Total

Choose 3 of the following:					
BA 3780	Entrepreneurship		3		
BA 3900	Business Internship		1 - 4		
BA 4950	CenTILE Projects		1-6		
BA 4600	Management of Technology & Innov	ation	3		
BA 4690	Systems Thinking and Dynamic Mod	eling	3		
	Credit Total		9		
Technology I	Block 9 Advisor Approved Credits				
	Credit Total 9				
Mathematics requirements					
(MA 1030, College Algebra I and MA 1031					
College Algebra II with Trig, or MA 1032					
Data, Functions, & Graphs Plus)			4-6		
and					
(MA 1135, Calculus for Life Sciences or MA 1160					
Calculus with Technology I)		4			
and					
MA 2720	Statistical Methods		4		
	Credit Total		12-14		
Lab Science Requirement					
BL / Biology , CH / Chemistry , FW / Forestry, GE / Geology , PH / Physics					
	Credit Total	3-4			
General education requirements					
UN 1001	Perspectives	3			

	Credit Total	3-4			
General education requirements					
UN 1001	Perspectives	3			
UN 1002	World Cultures	4			
UN 2001	Revisions	3			
UN 2002	Institutions	3			
EC 3100	International Economics	3			
Humanities, Arts and	12				
	Credit Total	28			

Free Electives 7-14

Total credits required 128.

7. New Course Descriptions

No new courses are being submitted as part of the proposed change.

8. Library and other Learning Resources

The support of the J. R. Van Pelt and John and Ruanne Opie Library is currently sufficient.

9. Computing Access Fee:

A basic computing access fee is paid by all SBE students and will continue under this major.

10. Faculty Resumes

School of Business and Economics faculty resumes are found at http://www.sbe.mtu.edu/cv/

11. Available Needed Equipment

All equipment required exists within the SBE labs and classrooms.

12. Program Costs

No new costs are expected because the proposed change is a spin-off of an existing degree.

13. Space

No new labs, classrooms or faculty space is required.

14. Polices, Regulations and Rules

None are required.

15. Accreditation Requirements

The BSBA is accredited by AACSB International. The process and criteria for maintaining accreditation is unaffected by the proposed change. The Operations and Systems Management, B. S. will be automatically accredited and subjected to periodic review by AACSB.

16. Internal Status of Proposal

Faculty School of Business and Economics, date approved 3/20/2009

Dean School of Business and Economics, date approved 3/20/2009

Provost, date approved

University support units date approved

University senate, date approved

Academic Affairs Officers, date approved

Board of Control date approved

17. Planned Implementation date

Fall semester 2009.

Introduced to Senate: 01 April 2009 Adopted by Senate: 15 April 2009 Approved by Administration: 22 April 2009 Approved by BOC: 16 July 2009