

Undergraduate Degree Changes								NOTES
Existing Degrees				New Degrees				#1
Name	Required Credit Hours	Fall 2011 Enrollment	CIP Code	Name	Required Credit Hours	Change	CIP Code	
	B.S.	B.S.			B.S.	B.S.		
Bachelor of Science in Engineering			14.0101					
- Specialty in Civil Engineering	138.5	266		BS in Civil Engineering	138.5	0	14.0801	#2
- Specialty in Electrical Engineering	141.0	216		BS in Electrical Engineering	137.0	-4	14.1001	#3
- Specialty in Environmental Eng.	137.5	128		BS in Environmental Eng.	137.5	0	14.1401	#4
- Specialty in Mechanical Engineering	140.5	816		BS in Mechanical Engineering	137.5	-3	14.1901	#5
Bachelor of Science in Mathematical and Computer Sciences			27.0101	BS in Applied Mathematics and Statistics			27.0304	
- Option in Applied Mathematics	130.5	90		- Emphasis in Computational and Applied Mathematics	130.5	0		#6
- Option in Statistics	130.5	13		- Emphasis in Statistics	130.5	0		#6
- Option in Computer Science	129.5	159		BS in Computer Science	129.5	0	11.0701	#7

[1] All existing degrees would continue to be supported for and granted to students who enrolled at Mines prior to Fall Semester 2012. Those students will also be provided an option to pursue the new degrees. After this transition period, the existing Bachelor of Science in Engineering with specialty degree would be changed to a Bachelor of Science in Engineering without specialty. The existing Bachelor of Science in Mathematical and Computer Sciences would be retired after the transition period. At the graduate level, all existing degree names would be retired after the transition period.

[2] The requirement for a course in Advanced Engineering Math is replaced with a required course in Fundamentals of Environmental Engineering. This change is needed due to ABET requirements for Civil Engineering.

[3] The requirement for a course in Advanced Engineering math is replaced with a required course in Linear Algebra; a required course in Microcomputers is added; requirements for courses in Mechanics of Materials, Engineering Thermo, and Fluids has been replaced with a requirement to choose one from these (or Dynamics). The first change is required by ABET for EE degrees.

[4] The choice between BELS 104 and Earth&Environmental Systems has been changed to a requirement for the latter; an Intro to Biology requirement has been added; Engineering Thermo has been replaced with ChemE Thermo; the requirement for Advanced Engineering Math has been replaced with a required class in Hydrology; An environmental engineering elective and a free elective have been dropped.

- [5] The requirement for an EE course in Information Systems is dropped; Advanced Engineering Math is replaced with a course in Numerical Methods.
- [6] There are no changes in requirements for the Computational and Applied Math or Statistics emphases in the new Applied Math and Statistics degree relative to the corresponding emphases in the MCS degree.
- [7] There are no changes in requirements for the Computer Science degree relative to the former Emphasis in Computer Science in the MCS degree.

Graduate Degree Changes							
Existing Degrees				New Degrees			
Name	Required Credit Hours		Fall 2011 Enrollment		CIP Code	Name	CIP Code
	M.S.	Ph.D.	M.S.	Ph.D.			
Master of Science/ Doctor of Philosophy in Engineering					140101	Note: There are no changes in degree requirements for the graduate degrees.	
- Specialty in Civil Engineering	30	72	27	15		MS/PhD Civil & Environmental Engineering	14.0801
- Specialty in Electrical Engineering	30	72	28	21		MS/PhD in Electrical Engineering	14.1001
- Specialty in Mechanical Engineering	30	72	65	26		MS/PhD in Mechanical Engineering	14.1901
- Specialty in Engineering Systems	30	72	12	14		MS/PhD in Engineering Systems	14.2701
Master of Science/ Doctor of Philosophy in Environmental Science and Engineering	30	72	80	23	14.1401	MS/PhD in Environmental Engineering Science	14.1401
Master of Science/ Doctor of Philosophy in Mathematical and Computer Sciences					27.0101	MS/PhD in Applied Mathematics and Statistics	27.0304
- Emphasis in Applied Mathematics	36	72	15	8		- Emphasis in Computational and Applied Mathematics	
- Emphasis in Statistics	36	72	7	7		- Emphasis in Statistics	
- Emphasis in Computer Science	36	72	13	21		MS/PhD in Computer Science	11.0701