

Approved by Faculty Senate 4/15/10

**UNDERGRADUATE AND PROFESSIONAL MAJOR CHANGE BULLETIN NO. 8
Spring 2010**

---REQUIREMENTS---

The requirements listed below reflect the undergraduate major curricular changes approved by the Catalog Subcommittee since approval of the last Undergraduate Major Change Bulletin. All curricula are printed in their entirety under the headings Current and Proposed, respectively. The column to the far right indicates the date each change becomes effective.

Heading	Current	Proposed	Effective Date
Biological Sciences, revise minor in Biology	A minor in biology requires a minimum of 20 hours in Biol coursework including Biol 106, 107, 301 and 8 additional hours at the 300-level or above. No more than 2 hours in Biol 495, 496 or 499 may be included in the 20 hours. 10 credit hours must be earned in residence at WSU. Students who major in biology or zoology cannot be granted a minor in biology.	A minor in biology requires a minimum of 20 hours in Biol coursework including Biol 106, 107, 301 and 8 additional hours at the 300-level or above. No more than 2 hours in Biol 490, 491, 494, 495, 496 or 499 may be included in the 20 hours. <u>At least 9 hours must be upper-division and taken in residence at WSU or through WSU-approved education abroad or educational exchange courses. A minimum cumulative 2.00 gpa is required in all coursework taken in the minor.</u> Students who major in biology or zoology cannot be granted a minor in biology.	8-10
Biological Sciences, revise minor in Zoology	Requires a minimum of 20 hours, including Biol 106, 107, and one of 321, 322, or 324; and 8 additional hours of biological sciences courses focused on animals. No more than 2 hours of Biol 496, 497, 498, or 499 may be included in the 20 hours. Credit hours for the minor must include 9 hours taken in residence at WSU or through WSU-approved education abroad or educational exchange courses.	<u>A minor in zoology</u> requires a minimum of 20 hours, including Biol 106, 107; one of 321, 322, or 324; and 8 additional hours of <u>Biol</u> courses focused on animals. No more than 2 hours of Biol 490, 491, 494, 495, 496, 497 or 499 may be included in the 20 hours. <u>At least 9 hours must be upper-division and taken in residence at WSU or through WSU-approved education abroad or educational exchange courses. A minimum cumulative 2.00 gpa is required in all coursework taken in the minor. Students who major in biology or zoology cannot be granted a minor in biology.</u>	8-10
Electrical Engineering & Computer Science, revise graduation requirements in Computer Engineering	Computer Engineering Requirements (129 Hours) Students may apply for certification into the Bachelor of Science in Computer Engineering degree program after completion of Biol 102 or Chem 105; Cpt S 121, 122; EE 214; Math 171, 172, 216; Phys 201, 202. No courses listed in this schedule of study may be taken on a pass/fail basis. All	Computer Engineering Requirements (123 Hours) Students may apply for certification into the Bachelor of Science in Computer Engineering degree program after completion of Chem 105; Cpt S 121, 122; EE 214; Math 171, 172, 216; Phys 201, 202. No courses listed in this schedule of study may be taken on a pass/fail basis. All	8-10

listed E E and Cpt S courses, required electives, and prerequisites to these courses must be completed with a grade of C or better.

First Year

	Hours
First Term	
Chem 105 [P] (GER)	4
Cpt S 121	4
Engl 101 [W] (GER)	3
Math 171 [N] (GER)	4
Second Term	Hours
Cpt S 122	4
Math 172	4
Math 216	3
Phys 201 [P] (GER)	4

Second Year

	Hours
First Term	Hours
Cpt S 223	3
E E 214	4
GenEd 110 or 111 [A] (GER)	3
Math 220	2
Math 273	2
Phys 202 [P] (GER)	4
Second Term	Hours
E E 234	4
E E 261	3
E E 262	1
GenEd 110 or 111 [A] (GER)	3
Intercultural Studies [I,G,K] (GER)	3
Math 315	3
Complete Writing Portfolio	

Third Year

	Hours
First Term	Hours
E E 311	3
E E 321	3
E E 324	4
E E 331	3
Engl 402 [W] or 403 [W] (GER)	3
Second Term	Hours
Biological Sciences [B] (GER)	3 or 4
Cpt S 360	4
E E 334	3
Engineering Science Elective ¹	3

listed E E and Cpt S courses, required electives, and prerequisites to these courses must be completed with a grade of C or better.

First Year

	Hours
First Term	Hours
Chem 105 [P] (GER)	4
Cpt S 121	4
Engl 101 [W] (GER)	3
Math 171 [N] (GER)	4
Second Term	Hours
Cpt S 122	4
Math 172	4
Math 216	3
Phys 201 [P] (GER)	4

Second Year

	Hours
First Term	Hours
E E 214	4
GenEd 110 or 111 [A] (GER)	3
Math 220	2
Math 273	2
Phys 202 [P] (GER)	4
Second Term	Hours
<u>Cpt S 223</u>	<u>3</u>
E E 234	4
E E 261	3
E E 262	1
GenEd 110 or 111 [A] (GER)	3
Math 315	3
Complete Writing Portfolio	

Third Year

	Hours
First Term	Hours
E E 311	3
E E 321	3
E E 324	4
<u>E E 352</u>	<u>3</u>
Engl 402 [W] or 403 [W] (GER)	3
Second Term	Hours
Biological Sciences [B] (GER)	3 or 4
Cpt S 360	4
E E 334	3
Engineering Science Elective ¹	3
Stat 360	3

Fourth Year

	Stat 360 3 Fourth Year First Term Hours Approved Cpt E Technical Electives ² 3 Arts & Humanities [H,G] (GER) 3 Cpt S 455 3 Design I 3 E E 415 2 EconS 101 [S] or EconS 102 [S] (GER) 3 Second Term Hours Approved Cpt E Technical Electives ² 6 Cpt S 460 or 466 3 E E 416 [M] 3 Tier III Humanities or Social Sciences Course [T] (GER) 3	First Term Hours Approved Cpt E Technical Electives ² 3 Arts & Humanities [H,G] (GER) 3 Design I 3 E E 415 2 EconS 101 [S] or EconS 102 [S] (GER) 3 Second Term Hours Approved Cpt E Technical Electives ² 6 <u>Intercultural Studies [I,G,K] (GER)</u> 3 E E 416 [M] 3 Tier III Humanities or Social Sciences Course [T] (GER) 3	
	Footnotes ¹ Choose from E E 341, E E 351, ME 301, or MSE 302. ² Technical electives must all be 300 or 400 level courses and must be chosen with an advisor's approval.	Footnotes ¹ Choose from E E 341, E E 351, ME 301, or MSE 302. ² Technical electives must all be 300 or 400 level courses and must be chosen with an advisor's approval.	

Electrical Engineering & Computer Science, revise graduation requirements in Electrical Engineering	Electrical Engineering Requirements (128 Hours) Students may apply for certification into the Bachelor of Science in Electrical Engineering degree program after completion of the following courses with a grade of C or better: Chem 105; Cpt S 251; E E 214, 221 ; Engl 101; Math 171, 172, 220, 273; Phys 201, 202. No courses listed in this schedule of study may be taken on a pass/fail basis. All listed E E and Cpt S courses and prerequisites to these courses must be completed with a grade of C or better. First Year First Term Hours Chem 105 [P] (GER) 4 Engl 101 [W] (GER) 3 Engr 120 2	Electrical Engineering Requirements (123 Hours) Students may apply for certification into the Bachelor of Science in Electrical Engineering degree program after completion of the following courses with a grade of C or better: Chem 105; Cpt S <u>121 or 251</u> ; <u>Cpt S 122 or E E 221</u> ; E E 214; Engl 101; Math 171, 172, 220, 273; Phys 201, 202. No courses listed in this schedule of study may be taken on a pass/fail basis. All listed E E and Cpt S courses and prerequisites to these courses must be completed with a grade of C or better. First Year First Term Hours Chem 105 [P] (GER) 4 Engl 101 [W] (GER) 3	8-10
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GenEd 110 [A] or 111 [A] (GER)	3	Engr 120	2
Math 171 [N] (GER)	4	GenEd 110 [A] or 111 [A] (GER)	3
Second Term	Hours	Math 171 [N] (GER)	4
CptS 251	3	Second Term	Hours
GenEd 110 [A] or 111 [A] (GER)	3	<u>CptS 121</u>	<u>4</u>
Math 172	4	Math 172	4
Math 220	2	Math 220	2
Phys 201 [P] (GER)	4	Phys 201 [P] (GER)	4
Second Year		Second Year	
First Term	Hours	First Term	Hours
Biological Sciences [B] (GER)	3	<u>Cpt S 122</u>	<u>4</u>
E E 214	4	E E 214	4
E E 221	2	Math 273	2
Math 273	2	Phys 202 [P] (GER)	4
Phys 202 [P] (GER)	4	Second Term	Hours
Second Term	Hours	E E 234	4
E E 234	4	E E 261	3
E E 261	3	E E 262	1
E E 262	1	EconS 101 [S] or EconS 102 [S]	3
EconS 101 [S] or EconS 102 [S]	3	(GER)	
Engineering Science I⁺	3	<u>GenEd 110 [A] or 111 [A] (GER)</u>	<u>3</u>
Math 315	3	Math 315	3
Complete Writing Portfolio		Complete Writing Portfolio	
Third Year		Third Year	
First Term	Hours	First Term	Hours
Arts & Humanities [H,G] (GER)	3	E E 311	3
E E 311	3	E E 321	3
E E 321	3	E E 331	3
E E 331	3	E E 352	3
E E 352	3	<u>Engineering Science Elective I¹</u>	<u>3</u>
Stat/Math 360	3	Second Term	Hours
Second Term	Hours	E E 341	3
E E 341	3	E E 361	3
E E 351	3	Engineering Science II ¹	3
E E 361	3	Math 360	3
E E 362 [M]	2	Track Elective ²	3
Engineering Science II ¹	3	Fourth Year	
Engl 402 [W] or 403 [W] (GER)	3	First Term	Hours
Fourth Year		<u>Biological Sciences [B] (GER)</u>	<u>3</u>
First Term	Hours	E E 415	3
E E 415	2	<u>Engl 402 [W] or 403 [W] (GER)</u>	<u>3</u>
E E 489	3	Intercultural Studies [I,G,K]	3
Intercultural Studies [I,G,K]	3	(GER)	
		<u>Track Electives²</u>	<u>6</u>

	<p>(GER) Probability and Stat Elective² 3 Technical Electives³ 3 Second Term Hours E E 416 [M] 3 Technical Electives³ 9 Tier III Humanities or Social Sciences Course [T] (GER) 3</p> <hr/> <p>Footnotes ¹ Choose from C E 211, M E 212, M E 301, or MSE 302. ² Select from E E 432, 451, 491 or 496. ³ 6 of the required 12 hours of technical electives must be 400 level electrical engineering courses. Technical electives must be selected with an advisor's approval.</p>	<p>Second Term Hours Arts & Humanities [H,G] (GER) 3 E E 416 [M] 3 Track Electives² 6 Tier III Humanities or Social Sciences Course [T] (GER) 3</p> <hr/> <p>Footnotes ¹ Choose from C E 211, M E 212, M E 301, or MSE 302. ² Students follow one of four tracks for an emphasis in their degree program: power, microelectronics, systems or general. See your academic advisor for an approved list.</p>	
<p>Nutrition & Exercise Physiology, revise graduation requirements</p>	<p>First Year First Term Hours Biol 102 [B] (GER) 4 Chem 105 [P] (GER) 4 English 101 [W] (GER) 3 GenEd 110 [A] (GER) 3 Stat 205 [N] (GER) 3 Second Term Hours Chem 106 [P] (GER) 4 ComSt 102 [C] (GER) 3 GenEd 111 [A] (GER) 3 MvtSt 262 or Biol 315 4 Psych 105 [S] (GER) 3 Second Year First Term Hours Biol 251 4 Chem 345 4 Intercultural Studies [I,G,K] (GER) 3 Phil 260 [H] (GER) 3 Second Term Hours Arts & Humanities [H,G] or Social Sciences [S,K] (GER) 3 FSHN 233 3 MBioS 101 4 MBioS 303 4 Complete Writing Portfolio Third Term Hours</p>	<p>First Year First Term Hours Biol 102 [B] or 106 [B] or 107 [B] (GER) 4 Chem 101 or 105 [P] (GER) 4 English 101 [W] (GER) 3 GenEd 110 [A] (GER) 3 Stat 205 [N] or 212 [N] (GER) 3 Second Term Hours Chem 102 or 106 [P] (GER) 4 ComSt 102 [C] (GER) 3 GenEd 111 [A] (GER) 3 MBioS 101 4 Psych 105 [S] (GER) 3 Second Year First Term Hours Biol 251 4 Chem 345 4 Intercultural Studies [I,G,K] (GER) 3 Phil 260 or 365 [H] (GER) 3 Second Term Hours Arts & Humanities [H,G] or Social Sciences [S,K] (GER) 3 MBioS 233 3 MBioS 303 4 MvtSt 262 or Biol 315 4 Complete Writing Portfolio</p>	<p>8-10</p>

Summer Session @WSU Spokane ExMet 320	4	Third Term	Hours
Third Year		Summer Session @WSU Spokane <u>NEP</u> 320	4
First Term	Hours	Third Year	
ExMet 300	2	First Term	Hours
ExMet 340	3	<u>NEP</u> 300 [M]	2
ExMet 400 [M]	3	<u>NEP</u> 340	3
ExMet 427	3	<u>NEP</u> 400	3
ExSci 463	4	<u>NEP</u> 427	3
Second Term	Hours	<u>NEP</u> 463	4
ExMet 362	3	Second Term	Hours
ExMet 402	2	<u>NEP</u> 362	3
ExMet 435	4	<u>NEP</u> 402	2
ExMet 465 [M]	3	<u>NEP</u> 435	4
ExSci 476	3	<u>NEP</u> 465 [M]	3
Fourth Year		<u>NEP</u> 476	3
First Term	Hours	Fourth Year	
Engl 402 [W] (GER)	3	First Term	Hours
ExMet 458	3	<u>NEP</u> 458	3
ExMet 473	3	<u>NEP</u> 473	3
ExMet 478	3	<u>NEP</u> 478	3
ExMet 479	3	<u>NEP</u> 479	3
Second Term	Hours	Second Term	Hours
ExMet 450	3	<u>NEP</u> 450	3
ExMet 470	3	<u>NEP</u> 470	3
ExMet 480	3	<u>NEP</u> 480	3
Tier III Course [T] (GER)	3	Tier III Course [T] (GER)	3
Third Term	Hours	Third Term	Hours
ExMet 490	10	<u>NEP</u> 490	10