

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

**---REQUIREMENTS---  
Fall 2011**

**Faculty Senate Approved 2/9/2012**

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 changes are underlined. Deletions are crossed out. The column to the far right indicates the date each change becomes effective.

<b>Department</b>	<b>Proposed</b>	<b>Effective Date</b>
Communication, revise minor in Communication	<p>The minor in communication requires a minimum of 18 hours, 9 of which must be at the 300-400 level and selected from the following courses: <del>Adver</del> <u>COMSTRAT380, 409, Bdest</u> <u>COMJOUR 333, 351, 466, 481,</u> <u>COM 101, 102, 105, 210, 230, 245, 295*, 321, 340, 403, 409, 410, 415,</u> <u>420, 440, 450, 460, 470, 471, ComSt</u> <u>COMSOC 102, 185, 235, 302, 321,</u> <u>324, 334, 351, 401, 421, 488, Jour</u> <u>305, 405, 481.</u> Nine hours of upper-division work must be taken in residence at WSU or through WSU-approved education abroad or educational exchange courses. Students may apply to certify in the minor after they have certified in a major outside the Murrow College of Communication <del>and completed three lower-division communication courses.</del> Students must apply to enroll in <del>Com 295 and other</del> select courses. Check with the <u>Murrow College Student Services Office</u> for additional information.</p>	<b>8-12</b>
Communication, Extend minor in Communication to Vancouver	<p>The minor in communication requires a minimum of 18 hours, 9 of which must be at the 300-400 level and selected from the following courses: <u>COMSTRAT 380, 409, COMJOUR 333, 351, 466, 481, COM 101, 102, 105, 210, 230, 245, 295, 410, 415, 420, 440, 460, 470, 471, COMSOC 235, 302, 321, 324, 421.</u> Nine hours of upper-division work must be taken in residence at WSU or through WSU-approved education abroad or educational exchange courses. Students may apply to certify in the minor after they have certified in a major outside the Murrow College of Communication. Students must apply to enroll in select courses. Check with the <u>Murrow College Student Services Office</u> for additional information.</p>	<b>8-12</b>

Mechanical and Materials Engineering, revise graduation requirements for BS Mechanical Engineering	<p><b>Third Year</b></p> <p><b>First Term</b> <span style="float: right;"><b>Hours</b></span></p> E E 304 <span style="float: right;">2</span> ME 301 <span style="float: right;">3</span> ME 303 <span style="float: right;">3</span> ME 313 <span style="float: right;">3</span> MATH/STAT 370 <span style="float: right;">3</span> MSE 201 <span style="float: right;">3</span> <p><b>Second Term</b> <span style="float: right;"><b>Hours</b></span></p> Arts & Humanities [H,G] (GER) <span style="float: right;">3</span> ME 305 <span style="float: right;">2</span> ME 310 <span style="float: right;">3-2</span> <u>ME 311</u> <span style="float: right;">1</span> ME 316 [M] <span style="float: right;">3</span> ME 348 <span style="float: right;">3</span> ME 404 <span style="float: right;">3</span> <p><b>Fourth Year</b></p> <p><b>First Term</b> <span style="float: right;"><b>Hours</b></span></p> Intercultural Studies [I,G,K] (GER) <span style="float: right;">3</span> ME 401 <span style="float: right;">3</span> ME 402 <span style="float: right;">3</span> ME 414 <span style="float: right;">3</span> Technical Elective <sup>1</sup> <span style="float: right;">3</span> <p><b>Second Term</b> <span style="float: right;"><b>Hours</b></span></p> ENGLISH 402 [W] (GER) <span style="float: right;">3</span> ME 406 [M] <span style="float: right;">3</span> ME 416 [T] GER <span style="float: right;">3</span> Technical Elective <sup>1</sup> <span style="float: right;">3</span> <del>Tier III</del> Humanities or Social Sciences Course [T] -(GER) 3 <hr/> <p><b>Footnotes</b></p> <sup>1</sup> Technical Elective in ME or MSE. (MSE 440 excluded).	<b>8-12</b>
Mechanical and Materials Engineering revise graduation requirements for BS Material Science and Engineering	<p>Materials Science and Engineering Degree Program(131 Hours)</p> <p><b>Second Year</b></p> <p><b>Second Term</b> <span style="float: right;"><b>Hours</b></span></p>	<b>8-12</b>

CE 215	3
CPT S 251 or E E 221	2
ECONS 102 [S] (GER)	3
Intercultural Studies [I,G,K] (GER)	3
MATH 315	3
<del>MSE ME 220</del>	1
Complete Writing Portfolio	
<b>Third Year</b>	
<b>First Term</b>	<b>Hours</b>
ME 310	<del>3</del> <u>2</u>
MSE 302	3
MSE 316	3
MSE 320	3
MSE 402	3
STAT 360 or 370	3
<b>Second Term</b>	<b>Hours</b>
E E 304	2
MSE 321	3
MSE 323	2
MSE 401	3
MSE 403	3
<del>Engineering and Science Elective<sup>+</sup></del>	<del>3</del>
<b>Fourth Year</b>	
<b>First Term</b>	<b>Hours</b>
ME 416 [T]	3
MSE 403	3
MSE 413	3
MSE 425 [M]	<del>2</del> <u>3</u>
Engineering and Science Elective <sup>1</sup>	6
<b>Second Term</b>	<b>Hours</b>
ENGLISH 402 [W] (GER)	3
<del>MSE 426 [M]</del>	<del>2</del>
MSE Elective <sup>2</sup>	3
Technical Elective <sup>3</sup>	3
Tier III Humanities or Social Sciences Course [T] (GER)	3

**Footnotes**

<sup>1</sup> Any three from BIOLOGY 301, BIO ENG 481, CE 341, E E 214, ME 212, 303, 313, 316, 348, 404, 414, 449, 461, 472, CHEM 331, 332,

	<p>336, 345, 346, 347, PHYSICS 303, 304, 463, MBIOS303, any 400 or 500-level MSE, or any 500-level ME (except Tier III courses in MSE).</p> <p><sup>2</sup> Any 400 or 500-level MSE course.</p> <p><sup>3</sup> Upper-division CE, CHE, CHEM, CPT S, E E, MATH, MSE, ME, PHYSICS, or STAT course (except Tier III courses in Engineering).</p>																																																									
<p>Molecular Biosciences, Change name of option from Biochemistry - Biochemistry/ Molecular Biology to <u>Biochemistry - Molecular Biology</u> and revise graduation requirements in <u>Biochemistry - Molecular Biology</u></p>	<p>Biochemistry - <del>Biochemistry</del>/Molecular Biology Option(120 Hours) A grade of C or better is required in all MBIOS courses taken to meet graduation requirements. None of these courses may be taken pass/fail.</p> <p><b>First Year</b></p> <table> <tr> <td>First Term</td> <td>Hours</td> </tr> <tr> <td>BIOLOGY 106 [<del>B</del>](GER) or 107 [BSCI]</td> <td>4</td> </tr> <tr> <td>CHEM 105 [<del>P</del>](GER) [PSCI]</td> <td>4</td> </tr> <tr> <td>ENGLISH 101 [<del>W</del>](GER) [WRTG]</td> <td>3</td> </tr> <tr> <td>GenEd 110 [A](GER)</td> <td>3</td> </tr> <tr> <td><u>MATH 106 (accelerated)</u></td> <td></td> </tr> <tr> <td><u>MATH 108 (accelerated)</u></td> <td><u>2</u></td> </tr> <tr> <td>Second Term</td> <td>Hours</td> </tr> <tr> <td>BIOLOGY <u>106</u> or 107 [<del>B</del>](GER)</td> <td>4</td> </tr> <tr> <td>CHEM 106 [<del>P</del>](GER)</td> <td>4</td> </tr> <tr> <td><del>GenEd 111 [A](GER)</del></td> <td>3</td> </tr> <tr> <td>Roots of Contemporary Issues [ROOT]</td> <td></td> </tr> <tr> <td>MATH 140 [QUAN] [<del>N</del>] or 171 [<del>N</del>](GER) [QUAN]</td> <td>4</td> </tr> </table> <p><b>Second Year</b></p> <table> <tr> <td>First Term</td> <td>Hours</td> </tr> <tr> <td><del>Arts &amp; Humanities [H,G](GER)</del></td> <td>3</td> </tr> <tr> <td><u>Communication [COMM]</u></td> <td></td> </tr> <tr> <td>CHEM 345<sup>+</sup></td> <td>4</td> </tr> <tr> <td>MBIOS 301</td> <td>4</td> </tr> <tr> <td>PHYSICS 101 [<del>P</del>] or 201 [<del>P</del>](GER)</td> <td>4</td> </tr> <tr> <td>Second Term</td> <td>Hours</td> </tr> <tr> <td>CHEM <del>346</del> <u>348</u></td> <td><del>4</del> <u>3</u></td> </tr> <tr> <td>MBIOS 303</td> <td>4</td> </tr> <tr> <td>PHYSICS 102 [<del>P</del>] or 202 [<del>P</del>](GER)</td> <td>4</td> </tr> <tr> <td>Social Sciences [<del>S,K</del>](GER) [SSCI]</td> <td>3</td> </tr> <tr> <td>Complete Writing Portfolio</td> <td></td> </tr> </table> <p><b>Third Year</b></p> <table> <tr> <td>First Term</td> <td>Hours</td> </tr> <tr> <td><del>Arts &amp; Humanities [H,G] or Social Sciences [S,K](GER)</del></td> <td>3</td> </tr> <tr> <td><u>Humanities [HUM]</u></td> <td></td> </tr> </table>	First Term	Hours	BIOLOGY 106 [ <del>B</del> ](GER) or 107 [BSCI]	4	CHEM 105 [ <del>P</del> ](GER) [PSCI]	4	ENGLISH 101 [ <del>W</del> ](GER) [WRTG]	3	GenEd 110 [A](GER)	3	<u>MATH 106 (accelerated)</u>		<u>MATH 108 (accelerated)</u>	<u>2</u>	Second Term	Hours	BIOLOGY <u>106</u> or 107 [ <del>B</del> ](GER)	4	CHEM 106 [ <del>P</del> ](GER)	4	<del>GenEd 111 [A](GER)</del>	3	Roots of Contemporary Issues [ROOT]		MATH 140 [QUAN] [ <del>N</del> ] or 171 [ <del>N</del> ](GER) [QUAN]	4	First Term	Hours	<del>Arts &amp; Humanities [H,G](GER)</del>	3	<u>Communication [COMM]</u>		CHEM 345 <sup>+</sup>	4	MBIOS 301	4	PHYSICS 101 [ <del>P</del> ] or 201 [ <del>P</del> ](GER)	4	Second Term	Hours	CHEM <del>346</del> <u>348</u>	<del>4</del> <u>3</u>	MBIOS 303	4	PHYSICS 102 [ <del>P</del> ] or 202 [ <del>P</del> ](GER)	4	Social Sciences [ <del>S,K</del> ](GER) [SSCI]	3	Complete Writing Portfolio		First Term	Hours	<del>Arts &amp; Humanities [H,G] or Social Sciences [S,K](GER)</del>	3	<u>Humanities [HUM]</u>		<p><b>8-12</b></p>
First Term	Hours																																																									
BIOLOGY 106 [ <del>B</del> ](GER) or 107 [BSCI]	4																																																									
CHEM 105 [ <del>P</del> ](GER) [PSCI]	4																																																									
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<del>Communication Proficiency [C,W] (GER)</del>	3
<del>Creative &amp; Professional Arts [ARTS]</del>	
<del>MATH 172, STAT 212 [N] (GER), or STAT 412</del>	3 or 4
<del>MBIOS 304 [M] 305</del>	3
<del>MBIOS 404 Elective</del>	3
Second Term	Hours
<del>Intercultural Studies [I,G,K] (GER)</del>	3
<del>Diversity [DIVR]</del>	
<del>MBIOS 305 304</del>	3
<del>MBIOS 306 401</del>	<u>3</u>
<del>MBIOS 465</del>	3
<del>Science Elective<sup>2</sup></del>	
<del>Humanities [HUM], Social Sciences [SSCI] or Creative &amp; Professional Arts [ARTS]</del>	3
<del>Elective</del>	3
<b>Fourth Year</b>	
First Term	Hours
<del>Arts &amp; Humanities [H,G], Intercultural Studies [I,G,K], or Social Sciences [S,K] (GER)</del>	3
<del>MBIOS 413 or 513</del>	3
<del>MBIOS 454 [M] 404</del>	3
<del>MBIOS 494 Lab Elective<sup>1</sup></del>	<u>3 or 4</u>
<del>Electives</del>	4
<del>Electives</del>	5
Second Term	Hours
<del>Arts &amp; Humanities [H,G], Intercultural Studies [I,G,K], or Social Sciences [S,K] (GER)</del>	3
<del>MBIOS 494 [M] [CAPS]</del>	
<del>MBIOS 401 454 [M]</del>	3
<del>MBIOS 414</del>	3
<del>Tier III Course [T] (GER)</del>	3
<del>Lecture Elective<sup>2</sup></del>	3
<del>Elective</del>	3
<hr/>	
<b>Footnotes</b>	
<sup>1</sup> <del>Pre-med students and those interested in advanced degrees should take CHEM 345, 346, and 348 (a one-year course in organic chemistry). Lab Elective: minimum of 3 credits from MBIOS 402, 411, 430, 498, 499; BIOLOGY 251, 315, 353.</del>	
<sup>2</sup> <del>3 hours Lecture elective: select one from MBIOS 410, 423, 426, 440, 442, 450, 466, 478, 498-499; PHYSICS 466.</del>	

Molecular Biosciences, Change name of option from Biochemistry - Biochemistry/ Biophysics to <u>Biochemistry –  Biophysics</u> and revise graduation requirements in <u>Biochemistry - Biophysics</u>	Biochemistry - <del>Biochemistry</del> /Biophysics Option(120 Hours) A grade of C or better is required in all MBIOS courses taken to meet graduation requirements. None of these courses may be taken pass/fail.	<b>8-12</b>
	<p><b>First Year</b></p> <p>First Term <span style="float: right;">Hours</span></p> CHEM 105 [ <del>P</del> ]( <del>GER</del> ) [PSCI] <span style="float: right;">4</span> ENGLISH 101 [ <del>W</del> ]( <del>GER</del> ) [WRTG] <span style="float: right;">3</span> <del>GenEd 110 [A](GER)</del> <span style="float: right;">3</span> <u>MATH 106 (accelerated)</u> <span style="float: right;">2</span> <u>MATH 108 (accelerated)</u> <span style="float: right;">2</span> MATH 171 [ <del>N</del> ]( <del>GER</del> ) <span style="float: right;">4</span> <u>BIOLOGY 106 [BSCI] or 107 [BSCI]</u> <span style="float: right;">4</span> <p>Second Term <span style="float: right;">Hours</span></p> BIOLOGY 106 <u>or 107</u> [ <del>B</del> ]( <del>GER</del> ) <span style="float: right;">4</span> CHEM 106 [ <del>P</del> ]( <del>GER</del> ) <span style="float: right;">4</span> <del>GenEd 111 [A](GER)</del> <span style="float: right;">3</span> <u>Roots of Contemporary Issues [ROOT]</u> <span style="float: right;">4</span> MATH <del>172-171</del> [QUAN] <span style="float: right;">4</span>	
	<p><b>Second Year</b></p> <p>First Term <span style="float: right;">Hours</span></p> <del>Arts &amp; Humanities [H,G](GER)</del> <span style="float: right;">3</span> <u>Communication [COMM]</u> <span style="float: right;">4</span> <u>BIOLOGY 107 [B](GER)</u> <span style="float: right;">4</span> MATH 172 <span style="float: right;">4</span> CHEM 345 <span style="float: right;">4</span> <u>PHYSICS 201 [P](GER)</u> <span style="float: right;">4</span> <u>MBIOS 301</u> <span style="float: right;">4</span> <p>Second Term <span style="float: right;">Hours</span></p> CHEM <del>346</del> <u>348</u> <span style="float: right;">43</span> <del>CHEM 347</del> <span style="float: right;">2</span> MBIOS <del>301</del> <u>303</u> <span style="float: right;">4</span> PHYSICS <del>202</del> [ <del>P</del> ]( <del>GER</del> ) 201 <span style="float: right;">4</span> Social Sciences [ <del>S,K</del> ]( <del>GER</del> ) [ <u>SSCI</u> ] <span style="float: right;">3</span> Complete Writing Portfolio	
	<p><b>Third Year</b></p> <p>First Term <span style="float: right;">Hours</span></p> <del>Arts &amp; Humanities [H,G] or Social Sciences [S,K](GER)</del> <span style="float: right;">3</span> <u>Humanities [HUM]</u> <span style="float: right;">32</span> CHEM 220 <span style="float: right;">32</span>	

	<p><u>Creative and Professional Arts [ARTS]</u></p> <p><u>CHEM 222</u> 42</p> <p><u>PHYSICS 202</u> 34</p> <p><u>MBIOS 303 305</u> 3</p> <p><u>MBIOS 304 [M]</u> 3</p> <p>Second Term Hours</p> <p><u>Communication Proficiency [C,W] (GER)</u> 3</p> <p><u>Diversity [DIVR]</u> 3</p> <p><u>Intercultural Studies [I,G,K] (GER)</u> 3</p> <p><u>CHEM 347</u> 3</p> <p><u>MBIOS 454 [M] 304</u> 3</p> <p><u>MBIOS 465</u> 3</p> <p><u>MBIOS 305 401</u> 3</p> <p><b>Fourth Year</b></p> <p>First Term Hours</p> <p><u>Arts &amp; Humanities, [H,G], Intercultural Studies [I,G,K], or Social Sciences [S,K] (GER)</u> 3</p> <p><u>Humanities [HUM], Social Sciences [SSCI], or Creative &amp; Professional Arts [ARTS]</u> 3</p> <p><u>MBIOS 413 or 513</u> 3</p> <p><u>MBIOS 466 or PHYSICS 466</u> 3</p> <p><u>MBIOS 494 [M]</u> 2+</p> <p><u>CHEM 220</u> 2</p> <p><u>CHEM 222</u> 2</p> <p>Electives 36</p> <p>Second Term Hours</p> <p><u>Arts &amp; Humanities [H,G], Intercultural Studies [I,G,K], or Social Sciences [S,K] (GER)</u> 3</p> <p><u>MBIOS 494 [M] [CAPS]</u> 3</p> <p><u>MBIOS 414</u> 3</p> <p><u>Science Lab Elective<sup>1</sup></u> 3</p> <p><u>Tier III Course [T] (GER)</u> 3</p> <p><u>MBIOS 454 [M]</u> 3</p> <p>Elective 3</p> <hr/> <p><b>Footnotes</b></p> <p><sup>1</sup> <u>Science Lab Elective: minimum of 3 credits selected from MBIOS 401, 404, 478, 402, 411, 430, 498, 499, or PHYSICS 466; BIOLOGY 251, 315, 353.</u></p>	
Molecular Biosciences, Change name of option from Genetics and Cell	<p><u>Genetics and Cell Biology – Molecular Biology Option (120 Hours)</u></p> <p>A grade of C or better is required in all MBIOS courses taken to meet</p>	<b>8-12</b>

Bilolgy to Genetics and Cell Biology - Molecular Biology and revise graduation requirements in Genetics and Cell Biology - Molecular Biology	graduation requirements. None of these courses may be taken pass/fail.	
	<b>First Year</b>	
	First Term	Hours
	BIOLOGY 106 [BSCI] or 107 [ <del>B</del> -(GER)] [BSCI]	4
	CHEM 105 [ <del>P</del> -(GER)] [PSCI]	4
	ENGLISH 101 [ <del>W</del> -(GER)] [WRTG]	3
	<del>GenEd 110</del> [A]-(GER)	3
	<u>MATH 106 (accelerated)</u>	
	<u>MATH 108 (accelerated)</u>	<u>2</u>
	Second Term	Hours
	BIOLOGY <u>106</u> or 107 [ <del>B</del> -(GER)]	4
	CHEM 106 [ <del>P</del> -(GER)]	4
	<del>GenEd 111</del> [A]-(GER) <u>Roots of Contemporary Issues [ROOT]</u>	3
	MATH 140 [QUAN] [ <del>N</del> ] or 171 [ <del>N</del> -(GER)] [QUAN]	4
	<b>Second Year</b>	
	First Term	Hours
	<del>Arts &amp; Humanities [H,G], Intercultural Studies [I,G,K], or Social Sciences [S,K]-(GER)</del>	3
	<u>Humanities [HUM], Social Sciences [SSCI], or Creative &amp; Professional Arts [ARTS]</u>	
	CHEM 345 <sup>1</sup>	4
	MBIOS 301	4
	PHYSICS 101 [ <del>P</del> ] or 201 [ <del>P</del> -(GER)]	4
	Second Term	Hours
	MBIOS 303	4
	<del>MBIOS 304</del> [M]	3
	<u>Creative &amp; Professional Arts [ARTS]</u>	
	PHYSICS 102 [ <del>P</del> ] or 202 [ <del>P</del> -(GER)]	4
	Social Sciences [ <del>S,K</del> -(GER)] [SSCI]	3
	Complete Writing Portfolio	
	<b>Third Year</b>	
	First Term	Hours
	<del>Arts &amp; Humanities [H,G] or Social Sciences [S,K]-(GER)</del>	3
	<u>Humanities [HUM]</u>	
	Communication Proficiency [C,W]-(GER) [COMM]	3
	Lab Elective <sup>2</sup>	3 or 4
	<u>MBIOS 304</u>	
	MATH 172, STAT 212 [ <del>N</del> -(GER)], or 412	3 or 4
MBIOS 305	3	
Second Term	Hours	

	<p><del>Intercultural Studies [I,G,K] (GER)</del> 3</p> <p><u>Diversity [DIVR]</u></p> <p>Lecture Elective<sup>32</sup> 3</p> <p>MBIOS 401 3</p> <p><del>MBIOS 454 [M]</del> 3</p> <p>Electives <u>6</u> 3or4</p> <p><b>Fourth Year</b></p> <p>First Term Hours</p> <p>Arts &amp; Humanities [H,G], Intercultural Studies [I,G,K], or Social Sciences [S,K] (GER) 3 <u>or 4</u></p> <p><u>Lab Elective</u><sup>3</sup></p> <p>MBIOS 402 [M] <u>423</u> 3</p> <p>MBIOS 404 3</p> <p>MBIOS 478 3</p> <p>Elective 3</p> <p>Second Term Hours</p> <p>Arts &amp; Humanities [H,G], Intercultural Studies [I,G,K], or Social Sciences [S,K] (GER) <u>MBIOS 442 or BIOLOGY 476</u> 3</p> <p>MBIOS 494 [M] [CAPS] <u>31</u></p> <p><del>Tier III Course [T] (GER)</del> <u>MBIOS 402 [M]</u> 3</p> <p>Electives <u>610</u></p> <hr/> <p><b>Footnotes</b></p> <p><sup>1</sup> <del>Pre-med students and those interested in advanced degrees should take CHEM 345, 346, and 348 recommended for professional or graduate degrees. (a one-year course in organic chemistry).</del></p> <p><sup>23</sup> Lab Elective: minimum of 3 hrs. credits selected from MBIOS <u>411, 430, 454, 498, 499; BIOLOGY 251, 315, 320, 321, 353, 372, 420E</u> <del>Mic 586/587.</del></p> <p><sup>32</sup> Lecture elective: select one from BIOLOGY <del>325</del> <u>476, 519; MBIOS 410, 413, 423, 426, 427, 440, 442, 450503.</u></p>	
<p>Molecular Biosciences</p> <p>Change name of option from Microbiology and Medical Technology to Microbiology – Molecular Biology option and revise graduation requirements in Microbiology - Molecular biology</p>	<p><del>Microbiology and Medical Technology – Molecular Biology Option (122</del> <u>120</u> Hours)</p> <p>A grade of C or better is required in all MBIOS courses taken to meet graduation requirements. None of these courses may be taken pass/fail.</p> <p><b>First Year</b></p> <p>First Term Hours</p> <p>BIOLOGY 106 [BSCI] or 107 [B] (GER) [BSCI] 4</p> <p>CHEM 105 [P] (GER) [PSCI] 4</p>	<b>8-12</b>

ENGLISH 101 [W](GER) [WRTG]	3
GenEd 110 [A](GER)	3
MATH 106 (accelerated)	2
MATH 108 (accelerated)	2
Second Term	Hours
BIOLOGY 106 or 107 [B](GER)	4
CHEM 106 [P](GER)	4
GenEd 111 [A](GER)	3
Roots of Contemporary Issues [ROOT]	3
MATH 140 [QUAN] [N] or 171 [N](GER) [QUAN]	4
<b>Second Year</b>	
First Term	Hours
Arts & Humanities [H,G](GER) [HUM]	3
CHEM 345 <sup>1</sup>	4
MBIOS 301	4
PHYSICS 101 [P](GER)	34
Creative & Professional Arts [ARTS]	34
Second Term	Hours
MBIOS 303	4
PHYSICS 102 [P](GER) MBIOS 305	34
Social Sciences [S,K](GER) [SSCI]	3
Humanities [HUM], Social Sciences [SSCI], or Creative & Professional Arts [ARTS]	3
Elective	34
Complete Writing Portfolio	
<b>Third Year</b>	
First Term	Hours
Arts & Humanities [H,G] or Social Sciences [S,K](GER)	3
Communication Proficiency [C,W](GER) [COMM]	3
MBIOS 304 [M]	3
MBIOS 305	43
PHYSICS 101	43
MBIOS 306	3 or 4
STAT 212 or 412	2
Elective	3
Second Term	Hours
Intercultural Studies [I,G,K](GER)	3
Diversity [DIVR]	3
Lecture Elective <sup>2</sup>	43
PHYSICS 102	43
MBIOS 410	3

	<p>MBIOS <del>411</del> <u>450</u> <span style="float: right;"><u>32</u></span></p> <p>Elective <span style="float: right;"><u>34</u></span></p> <p><b>Fourth Year</b></p> <p>First Term <span style="float: right;">Hours</span></p> <p><del>Arts &amp; Humanities [H,G], Intercultural Studies [I,G,K], or Social Sciences [S,K] (GER)</del> <span style="float: right;">3</span></p> <p><u>Elective</u></p> <p><del>Lab Lecture Elective<sup>32</sup></del> <span style="float: right;"><u>34</u></span></p> <p>MBIOS 404 <span style="float: right;">3</span></p> <p>MBIOS 430 (or MBIOS 411) [M] <span style="float: right;">3</span></p> <p>MBIOS 440 <span style="float: right;">3</span></p> <p>Second Term <span style="float: right;">Hours</span></p> <p><del>Arts &amp; Humanities [H,G], Intercultural Studies [I,G,K], or Social Sciences [S,K] (GER)</del> <span style="float: right;">3</span></p> <p><u>MBIOS 401 Lab Elective<sup>3</sup></u> <span style="float: right;">3 or 4</span></p> <p>MBIOS 442 <span style="float: right;">3</span></p> <p>MBIOS <del>496</del> <u>494</u> [M] [CAPS] <span style="float: right;"><u>31</u></span></p> <p><del>Tier III Course [T] (GER)</del> <span style="float: right;">3</span></p> <p><u>Electives</u> <span style="float: right;"><u>62</u></span></p> <hr/> <p><b>Footnotes</b></p> <p><sup>1</sup> <del>Pre-med students and those interested in advanced degrees should take CHEM 345, 346, and 348 (a one year course in organic chemistry) are recommended for professional or graduate degrees.</del></p> <p><sup>2</sup> <del>Lecture elective: select one from MBIOS 342, 401, 413, 426, 446, 448, 450; BIOLOGY 418, ENTOM 343, FS 416.</del></p> <p><sup>3</sup> <del>Lab Elective: minimum of 3 credits selected one from MENTOM 343 and 344 (taken concurrently), BIOLOGY 418, MBIOS 444 and 445 (taken concurrently), MBIOS 402, 411 or 430, 454, 498, 499; for Medical Technology option take BIOLOGY 418 BIOLOGY 251, 315, 353; ENTOM 344; FS 417.</del></p>	
<p>Molecular Biosciences, Change name of option from Microbiology and Medical Technology to Microbiology - Medical Technology option and revise graduation requirements in Microbiology - Medical Technology</p>	<p><del>MicroBiology and Medical Technology –Medical Technology Option</del> (422 <u>121</u> Hours)</p> <p>A grade of C or better is required in all MBIOS courses taken to meet graduation requirements. None of these courses may be taken pass/fail.</p> <p><b>First Year</b></p> <p>First Term <span style="float: right;">Hours</span></p> <p>BIOLOGY 106 [BSCI] or 107 [B] (GER) [BSCI] <span style="float: right;">4</span></p> <p>CHEM 105 [P] (GER) [PSCI] <span style="float: right;">4</span></p> <p>ENGLISH 101 [W] (GER) [WRTG] <span style="float: right;">3</span></p>	<b>8-12</b>

<del>GenEd 110 [A] (GER)</del>	3
<u>MATH 106 (accelerated)</u>	
<u>MATH 108 (accelerated)</u>	<u>2</u>
Second Term	Hours
BIOLOGY <u>106 or 107 [B] (GER)</u>	4
CHEM 106 [P] (GER)	4
<del>GenEd 111 [A] (GER)</del>	3
<u>Roots of Contemporary Issues [ROOT]</u>	
MATH 140 [QUAN] [N] or 171 [N] (GER) [QUAN]	4
<b>Second Year</b>	
First Term	Hours
<u>Arts &amp; Humanities [H,G] (GER) [HUM]</u>	3
CHEM 345 <sup>1</sup>	4
MBIOS 301	4
<del>PHYSICS 101 [P] (GER)</del>	<u>34</u>
<u>Creative &amp; Professional Arts [ARTS]</u>	
Second Term	Hours
MBIOS 303	4
<del>PHYSICS 102 [P] (GER)</del>	<u>34</u>
<u>MBIOS 305</u>	
Social Sciences [S,K] (GER) [SSCI]	3
<u>Humanities [HUM], Social Sciences [SSCI], or Creative &amp; Professional Arts [ARTS]</u>	<u>3</u>
Elective	<u>34</u>
Complete Writing Portfolio	
<b>Third Year</b>	
First Term	Hours
<u>Arts &amp; Humanities [H,G] or Social Sciences [S,K] (GER)</u>	3
Communication Proficiency [C,W] (GER) [COMM]	3
MBIOS 304 [M]	3
MBIOS 305	<u>43</u>
<u>PHYSICS 101</u>	
<del>MBIOS 306</del>	<u>3 or 4</u>
<u>STAT 212 or 412</u>	<u>2</u>
Elective	3
Second Term	Hours
<del>Intercultural Studies [I,G,K] (GER)</del>	3
Diversity [DIVR]	
Lecture Elective <sup>2</sup>	<u>43</u>
<u>PHYSICS 102</u>	
MBIOS 410	3

MBIOS 411 <del>450</del>	<u>32</u>
Elective	<u>34</u>
<b>Fourth Year</b>	
First Term	Hours
<del>Arts &amp; Humanities [H,G], Intercultural Studies [I,G,K], or Social Sciences [S,K] (GER) Elective</del>	3
<del>Lab</del> <u>BIOLOGY 418</u>	4
MBIOS 404	3
MBIOS 430 [M]	3
MBIOS 440	3
Second Term	Hours
<del>Arts &amp; Humanities [H,G], Intercultural Studies [I,G,K], or Social Sciences [S,K] (GER)</del>	3
<del>MBIOS 401</del> <u>MBIOS 411 [M]</u>	3
MBIOS 442	3
MBIOS <del>496</del> <u>494 [M] [CAPS]</u>	<u>34</u>
<del>Tier III Course [T] (GER)</del>	3
Electives	<u>52</u>
<hr/>	
<b>Footnotes</b>	
<sup>1</sup> <del>Pre-med students and those interested in advanced degrees should take CHEM 345, 346, and 348 (a one-year course in organic chemistry) are recommended for professional or graduate degrees.</del>	