

UNDERGRADUATE AND PROFESSIONAL MAJOR CHANGE BULLETIN NO. 4
Fall 2023

--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 changes are underlined. Deletions are crossed out. The column to the far right indicates the date each change becomes effective. Note: Items marked {S} have been streamlined and do not require Catalog Subcommittee review.

Department	Proposed	Effective Date
<p>Business Revise requirements for BA in Business Administration - Management</p>	<p>Management (120 Credits)</p> <p>The Management major has been developed for students interested in pursuing a career as a professional manager. In addition to learning vital management skills such as planning, organizing, leadership, and controlling, students will gain marketable skills by choosing one of two tracks. The Human Resource Management (HRM) track provides skills in areas such as selection, training, motivating, evaluating, and compensating employees. The Innovation and Change (I&C) track provides skills in areas such as managing innovation in networks and teams and managing organizational change processes.</p> <p>Additional majors within the Business Administration Degree Students already admitted to another major within the Business Administration degree, except for the Business Administration major, can elect to earn an additional major in Management by completing the following courses: MGMT 401, MGMT 485, MGTOP 470, MGMT 483, and 3 credits of MIS 441, MIS 420, ENTRP 489, or MGMT 496 for the Innovation & Change track or MGMT 401, MGMT 485, MGTOP 470, MGMT 450, MGMT 455, and MGMT 456 for Human Resource Management track. None of the courses for an additional major may be used for a 300-400-level Business Elective and at least 15 credits of an additional major's courses cannot be used elsewhere in the degree. If interested in this option, please contact a Carson College of Business advisor.</p> <p>Graduation Requirements To graduate with a Bachelor of Arts in Business Administration with a major in Management, students are required to complete all admission and graduation requirements listed in the Carson College of Business (CCB) section of this catalog and the coursework included in the sample 4-year plan listed below.</p> <p>First Year</p> <p><i>First Term</i></p> <p>B A 100</p>	<p>8-24</p>
	<p><i>Credits</i></p> <p>3</p>	

ECONS 101 [SSCI] or 102 [SSCI] ¹	3
HISTORY 105 [ROOT]	3
MATH 201 ²	3
UCORE Inquiry ³	3
<i>Second Term</i>	<i>Credits</i>
B A 102	1
ECONS 101 or 102 ¹	3
ENGLISH 101 [WRTG] or 105 [WRTG] ¹	3
HBM 101 ¹	1
MATH 202 [QUAN] ⁴	3
UCORE Inquiry ³	4
Complete Carson Career Amplifier Program Tier 1 Apply for Admission into the Major	
Second Year	
<i>First Term</i>	<i>Credits</i>
ACCTG 230 ¹	3
B A 201, 202, and 203, or B A 211	3
B LAW 210	3
COM 102 [COMM], H D 205 [COMM], or MKTG 279 [COMM] ¹	3 or 4
MIS 250	3
Consider studying abroad this summer ⁵	
<i>Second Term</i>	<i>Credits</i>
ACCTG 231 ¹	3
B A 204, 205, and 206, or B A 212	3
MGTOP 215 ⁶	4
UCORE Inquiry ³	6
Complete Carson Career Amplifier Program Tier 2 Complete Writing Portfolio	
Third Year	
<i>First Term</i>	<i>Credits</i>
FIN 325	3
I BUS 380	3
MGMT 401	3
UCORE Inquiry ³	3
Social Science or Humanities Elective ⁷	3
<i>Second Term</i>	<i>Credits</i>
ENGLISH 402 or 403	3

MGMT 485 [M]	3
MGTOP 340	3
MKTG 360	3
Track Electives ⁸	3
Complete Carson Career Amplifier Program Tier 3	
Fourth Year	
First Term	Credits
MGTOP 470	3
International Experience Requirement or Electives ⁵	3
Social Science or Humanities Elective ⁷	3
Track Electives [M] ⁸	6
Second Term	Credits
MGMT 491 [CAPS] or ENTRP 492 [CAPS]	3
International Experience Requirement or Electives	3
Track Electives ⁸	3
Electives ⁹	5
Complete Carson Career Amplifier Program Tier 4	

Footnotes

¹ For students in the Honors Program: ECONS 198 is an approved substitute for ECONS 101 and 102; COM 102/H D 205/MKTG 279 requirement is waived; HONORS 198 is an approved substitute for HBM 101; ENGLISH 198 is an approved substitute for ENGLISH 101; ACCTG 298 is an approved substitute for ACCTG 230 and 231. Honors students may need to enroll in elective coursework to meet University requirement of 120 credits.

² MATH 201 will be waived with an ALEKS score of 80% or higher, or the completion of MATH 202 or equivalent. MATH 106 will be accepted as an alternative to MATH 201 for transfer students.

³ Must complete 5 of these 6 UCORE designations: ARTS, BSCI, DIVR, EQJS, HUM, PSCI. One lab science (BSCI or PSCI) must be completed.

⁴ Alternative to MATH 202 is MATH 140 or 171.

⁵ All students must complete the International Experience Requirement. Options for completing the requirement can be found in the Carson College of Business Academic Unit section of the catalog under Business or Business Administration (Vancouver). Students should consult with their advisor to determine the best option.

⁶ ~~MATH~~/STAT 212 will be accepted as alternative to MGTOP 215 for transfer students.

⁷ Social Science or Humanities Electives (6 credits): Any courses with the [SSCI] or [HUM] designation (excluding courses in ACCTG, B A, B LAW, ENTRP, FIN, HBM, I BUS, MGMT, MGTOP, MIS, and MKTG), or courses in ANTH, ART, ASIA, CES, CRM J, DTC, ECONS, ENGLISH (excluding ENGLISH 402 or 403), FOR LANG, HISTORY, HONORS 270, 280, 370, 380, H D, HUMANITY, PHIL, POL S, PSYCH, SOC, and WGSS not used to fulfill other (including UCORE) requirements.

⁸ Track Electives: Students must complete one of two tracks for the management major. A total of 12 credits are required for each track. The requirements for each track are as follows. Innovation & Change Track: required MGMT 483 [M]; 3 credits from MIS 441, MIS 420, ENTRP 489, MGMT 496; 6 credits from any 300-400-level course taught by CCB. May not include courses from the CCB core, the set of required MGMT/MGTOP courses, or any 498 Internships or 499 Special Topics courses. Human Resource Management Track: required MGMT 450, 455, 456 [M]; 3 credits from any 300-400-level course taught by CCB. May not include courses from the CCB core, the set of required MGMT/MGTOP courses, or any 498 Internships or 499 Special Topics courses.

⁹ Electives: 300-400-level coursework as needed to meet University requirements of 120 credits and 40 upper-division credits.

Business
Revise requirements
for BA in Business
Administration -
Management
Information Systems

Management Information Systems (120 Credits)

8-24

Preparation for careers in every field of business, using information systems technology to solve business problems. Provides excellent training in systems design, development, networking, and support to meet the demands of this fast-growing occupational area.

Additional majors within the Business Administration Degree

Students already admitted to another major within the Business Administration degree, except for the Business Administration major, can elect to earn an additional major in Management Information Systems by completing the following courses: MIS 322, MIS 325, MIS 372, and two 300-400-level MIS Electives¹⁰. None of the courses for an additional major may be used for a 300-400-level Business Elective and at least 15 credits of an additional major's courses cannot be used elsewhere in the degree. If interested in this option, please contact a Carson College of Business advisor.

Graduation Requirements

To graduate with a Bachelor of Arts in Business Administration with a major in Management Information System students are required to complete all admission and graduation requirements listed in the Carson College of Business (CCB) section of this catalog and the coursework included in the sample 4-year plan listed below.

First Year

First Term

Credits

B A 100	3
ECONS 101 [SSCI] or 102 [SSCI] ¹	3
ENGLISH 101 [WRTG] or 105 [WRTG] ¹	3
MATH 201 ²	3
UCORE Inquiry ³	3

Second Term

Credits

B A 102	1
ECONS 101 or 102 ¹	3
HBM 101 ¹	1
HISTORY 105 [ROOT]	3
MATH 202 [QUAN] ⁴	3
UCORE Inquiry ³	4

Complete Carson Career Amplifier Program Tier 1
Apply for Admission into the Major

Second Year

<i>First Term</i>	<i>Credits</i>
ACCTG 230 ¹	3
B A 204, 205, and 206, or B A 212	3
B LAW 210	3
COM 102 [COMM], H D 205 [COMM], or MKTG 279 [COMM] ¹	3 or 4
MIS 250	3
Consider studying abroad this summer ⁵	
<i>Second Term</i>	<i>Credits</i>
ACCTG 231 ¹	3
B A 201, 202, and 203, or B A 211	3
MGTOP 215 ⁶	4
UCORE Inquiry ³	6
Complete Carson Career Amplifier Program Tier 2	
Complete Writing Portfolio	
Third Year	
<i>First Term</i>	<i>Credits</i>
ENGLISH 402 or 403	3
FIN 325	3
MIS 325	3
MIS 372 [M]	3
Electives ⁷	3
<i>Second Term</i>	<i>Credits</i>
I BUS 380	3
MGTOP 340	3
MIS 322 [M]	3
MKTG 360	3
Social Science or Humanities Elective ⁸	3
Complete Carson Career Amplifier Program Tier 3	
Fourth Year	
<i>First Term</i>	<i>Credits</i>
UCORE Inquiry ³	3
300-400-level Business Electives ⁹	3
300-400-level MIS Electives ¹⁰	3
International Experience Requirement or Electives ⁵	3
Social Science or Humanities Elective ⁸	3
<i>Second Term</i>	<i>Credits</i>
MGMT 491 [CAPS] or ENTRP 492 [CAPS]	3

	<p>300-400-level Business Electives⁹ 3</p> <p>300-400-level MIS Elective¹⁰ 3</p> <p>International Experience Requirement and/or Electives^{5,7} 5</p> <p>Complete Carson Career Amplifier Program Tier 4</p> <hr/> <p>Footnotes</p> <p>¹ For students in the Honors Program: ECONS 198 is an approved substitute for ECONS 101 and 102; COM 102/H D 205/MKTG 279 requirement is waived; HONORS 198 is an approved substitute for HBM 101; ENGLISH 198 is an approved substitute for ENGLISH 101; ACCTG 298 is an approved substitute for ACCTG 230 and 231. Honors students may need to enroll in elective coursework to meet University requirement of 120 credits.</p> <p>² MATH 201 will be waived with an ALEKS score of 80% or higher, or the completion of MATH 202 or equivalent. MATH 106 will be accepted as an alternative to MATH 201 for transfer students.</p> <p>³ Must complete 5 of these 6 UCORE designations: ARTS, BSCI, DIVR, EQJS, HUM, PSCI. One lab science (BSCI or PSCI) must be completed.</p> <p>⁴ Alternative to MATH 202 is MATH 140 or 171.</p> <p>⁵ All students must complete the International Experience Requirement. Options for completing the requirement can be found in the Carson College of Business Academic Unit section of the catalog under Business or Business Administration (Vancouver). Students should consult with their advisor to determine the best option.</p> <p>⁶ MATHSTAT 212 will be accepted as alternative to MGTOP 215 for transfer students.</p> <p>⁷ Electives: 300-400-level coursework as needed to meet University requirements of 120 credits and 40 upper-division credits.</p> <p>⁸ Social Science or Humanities Electives (6 credits): Any courses with the [SSCI] or [HUM] designation (<u>excluding courses in ACCTG, B, A, B, LAW, ENTRP, FIN, HBM, I, BUS, MGMT, MGTOP, MIS, and MKTG</u>), or courses in ANTH, ART, ASIA, CES, CRM J, DTC, ECONS, ENGLISH (excluding ENGLISH 402 or 403), FOR LANG, HISTORY, HONORS 270, 280, 370, 380, H D, HUMANITY, PHIL, POL S, PSYCH, SOC, and WGSS not used to fulfill other (including UCORE) requirements.</p> <p>⁹ 300-400-level Business Electives (6 credits): Any 300-400-level courses taught by CCB. May not include courses from the business administration CCB core, the set of required MIS courses, or any 498 Internships or 499 Special Topics courses.</p> <p>¹⁰ 300-400-level MIS Electives (6 credits): Any 300-400-level MIS course. May not include courses from the CCB Core, the set of required MIS courses, or any except 498 Internship or 499 Special Topics courses not used to fulfill major requirements.</p>							
<p>{S} Human Development Revise requirements for BA in Human Development - Family and Consumer Sciences</p>	<p>Family and Consumer Sciences Option (120 Credits)</p> <p>Students can be admitted as a Human Development major after completing 24 credits and earning a GPA of at least 2.0. A cumulative GPA of 2.6 or better in all H D courses that apply to the option, including substitutions, is required to (a) maintain admission in the major; and (b) complete the Bachelor of Arts degree in Human Development. A grade of C or better must be earned in all courses used to fulfill requirements for teacher certification. Of the 49 H D credits required for the major and Family and Consumer Sciences option, a minimum of 21 must be taken at WSU.</p> <p>First Year</p> <table data-bbox="378 1743 1393 1879"> <thead> <tr> <th><i>First Term</i></th> <th><i>Credits</i></th> </tr> </thead> <tbody> <tr> <td>BIOLOGY 140 [BSCI]</td> <td>3</td> </tr> <tr> <td>ENGLISH 101 [WRTG]</td> <td>3</td> </tr> </tbody> </table>	<i>First Term</i>	<i>Credits</i>	BIOLOGY 140 [BSCI]	3	ENGLISH 101 [WRTG]	3	<p>8-24</p>
<i>First Term</i>	<i>Credits</i>							
BIOLOGY 140 [BSCI]	3							
ENGLISH 101 [WRTG]	3							

H D 101 [SSCI]	3
Quantitative Reasoning [QUAN]	3 or 4
UCORE Inquiry ¹	3
<i>Second Term</i>	<i>Credits</i>
ENGLISH 201 [WRTG] ²	3
H D 200	2
HISTORY 105 [ROOT]	3
UCORE Inquiry ¹	7
Second Year	
<i>First Term</i>	<i>Credits</i>
AMDT Elective ³	3
H D 204	3
H D 220	3
H D 306	3
<i>Second Term</i>	<i>Credits</i>
H D 302	3
H D 307	3
H D 310 [M]	3
HBM 258	3
TCH LRN 301	3
Complete Writing Portfolio	
Third Year	
<i>First Term</i>	<i>Credits</i>
AMDT Elective ³	3
H D 320 [M]	3
H D 350 [DIVR]	3
H D 479	3
TCH LRN 317	2
<i>Second Term</i>	<i>Credits</i>
H D 410 [M]	3
H D 480	3
Integrative Capstone [CAPS]	3
TCH LRN 464	3
TCH LRN 465	3
TCH LRN 466	2
Fourth Year	

	<p>First Term</p> <table border="0"> <tr> <td>AG ED 440</td> <td style="text-align: right;">2</td> </tr> <tr> <td>ED PSYCH 468</td> <td style="text-align: right;">3</td> </tr> <tr> <td>H D 499 404</td> <td style="text-align: right;">3</td> </tr> <tr> <td>TCH LRN 467</td> <td style="text-align: right;">3</td> </tr> <tr> <td>TCH LRN 469</td> <td style="text-align: right;">2</td> </tr> <tr> <td>TCH LRN 470</td> <td style="text-align: right;">3</td> </tr> </table> <p>Second Term</p> <table border="0"> <tr> <td>H D 407</td> <td style="text-align: right;">8</td> </tr> <tr> <td>TCH LRN 415</td> <td style="text-align: right;">8</td> </tr> </table> <hr/> <p>Footnotes</p> <p>¹ Must complete 3 of these 4 UCORE designations: ARTS, EQJS, HUM, PSCI. One lab science (BSCI or PSCI) must be completed. Recommend one from AMDT 210 or CHEM 101.</p> <p>² One from ENGLISH 201, 301, 302 [M] or 402 is required for admission to the Teacher Education Program. Students who take ENGLISH 302 will need to take an additional [WRTG] or [COMM] course.</p> <p>³ Select two from: AMDT 210, 211, or 417.</p>	AG ED 440	2	ED PSYCH 468	3	H D 499 404	3	TCH LRN 467	3	TCH LRN 469	2	TCH LRN 470	3	H D 407	8	TCH LRN 415	8	
AG ED 440	2																	
ED PSYCH 468	3																	
H D 499 404	3																	
TCH LRN 467	3																	
TCH LRN 469	2																	
TCH LRN 470	3																	
H D 407	8																	
TCH LRN 415	8																	
<p>{S} Mathematics and Statistics Revise requirements for BS in Mathematics - Secondary Teaching Option with Certification</p>	<p>Secondary Teaching Option with Certification (124 Credits)</p> <p>Mathematics Major Core Requirements Courses required for the major may not be taken pass/fail, and a 2.0 minimum GPA is required.</p> <p>Admission to the Major Requirements</p> <ol style="list-style-type: none"> 1. Applications for admission to the major are accepted at any time during fall and spring semesters. Decisions are made within ten working days of receipt of application. Application forms are available in the Mathematics Department office. 2. Applications are evaluated, and admission decided, by a faculty committee. 3. Applicants must have a cumulative GPA of at least 2.0. 4. The mathematics core consists of MATH 171, 172, and 220. These courses (or their equivalent for transfer students) must be completed before application. 5. Students with at least a 2.5 GPA in the mathematics core will be admitted automatically. Those with less than a 2.0 GPA in the mathematics core will normally not be admitted. Others will be considered on a case-by-case basis. 6. Appeals related to admission decisions are considered by the department chairperson. 7. Students who are denied admission may reapply after completing at least 12 more credits, whereupon decisions are based on grades in mathematics, science, and computer science courses; cumulative GPA and grade patterns; and a personal interview. 	<p>8-24</p>																

8. Admitted students whose cumulative GPA or GPA in MATH courses numbered 171 and above falls below 2.0 for two consecutive semesters, or who are academically deficient, are subject to release from the major.
9. Applications for readmission are handled in the same manner as admission applications for those previously denied.

Teaching and Learning Requirements

Secondary education teacher certification requires a consultation with and advisor from the Department of Teaching and Learning for approval and sequencing of TCH LRN courses.

First Year

<i>First Term</i>	<i>Credits</i>
Biological Sciences [BSCI] with lab	4
ENGLISH 101 [WRTG]	3
Humanities [HUM]	3
MATH 171 [QUAN]	4

<i>Second Term</i>	<i>Credits</i>
HISTORY 105 [ROOT]	3
MATH 172	4
MATH 220, 225, or 230	2 or 3
PSYCH 105 [SSCI]	3
Foreign Language, if necessary	0-4

Second Year

<i>First Term</i>	<i>Credits</i>
ENGLISH 201 [WRTG] or 301 [WRTG]	3
MATH 216	3
MATH 273	2
<u>MATH 325</u>	<u>3</u>
PHYSICS 201 [PSCI]	3
PHYSICS 211 [PSCI]	1
Foreign Language, if necessary	0-4

<i>Second Term</i>	<i>Credits</i>
Arts [ARTS]	3
MATH 301	3
MATH 315	3
MATH 398	1
TCH LRN 301	3
Complete Writing Portfolio	

	<p><i>Third Term</i> (Summer) TCH LRN 317</p> <p>Third Year</p> <p><i>First Term</i> Equity and Justice [EQJS] MATH 300 [M] MATH 330 MATH 403 300-400-level MATH Elective</p> <p><i>Second Term</i> Diversity [DIVR] MATH 320 STAT 360 or 443 300-400-level MATH Elective</p> <p>Fourth Year</p> <p><i>First Term</i> MATH 401 [M] MATH 431 TCH LRN 464 TCH LRN 465 TCH LRN 466</p> <p><i>Second Term</i> ED PSYCH 468 MATH 432 [CAPS] TCH LRN 467 [M] TCH LRN 469 TCH LRN 470</p> <p>Fifth Year</p> <p><i>First Term</i> TCH LRN 415 (Student Teaching) Exit Interview</p>	<p><i>Credits</i> 2</p> <p><i>Credits</i> 3 3 3 3 3</p> <p><i>Credits</i> 3 3 3 3</p> <p><i>Credits</i> 3 3 3 3 2</p> <p><i>Credits</i> 3 3 3 2 3</p> <p><i>Credits</i> 16</p>	
<p>{S} Mathematics and Statistics Revise requirements for BS in Mathematics - Secondary Teaching</p>	<p>Secondary Teaching Option Wwithout Certification (120 Credits)</p> <p>Mathematics Major Core Requirements Courses required for the major may not be taken pass/fail, and a 2.0 minimum GPA is required.</p>		8-24

Option without
Certification

Admission to the Major Requirements

1. Applications for admission to the major are accepted at any time during fall and spring semesters. Decisions are made within ten working days of receipt of application. Application forms are available in the Mathematics Department office.
2. Applications are evaluated, and admission decided, by a faculty committee.
3. Applicants must have a cumulative GPA of at least 2.0.
4. The mathematics core consists of MATH 171, 172, and 220. These courses (or their equivalent for transfer students) must be completed before application.
5. Students with at least a 2.5 GPA in the mathematics core will be admitted automatically. Those with less than a 2.0 GPA in the mathematics core will normally not be admitted. Others will be considered on a case-by-case basis.
6. Appeals related to admission decisions are considered by the department chairperson.
7. Students who are denied admission may reapply after completing at least 12 more credits, whereupon decisions are based on grades in mathematics, science, and computer science courses; cumulative GPA and grade patterns; and a personal interview.
8. Admitted students whose cumulative GPA or GPA in MATH courses numbered 171 and above falls below 2.0 for two consecutive semesters, or who are academically deficient, are subject to release from the major.
9. Applications for readmission are handled in the same manner as admission applications for those previously denied.

First Year

<i>First Term</i>	<i>Credits</i>
Biological Sciences [BSCI] with lab	4
HISTORY 105 [ROOT]	3
Humanities [HUM]	3
MATH 171 [QUAN]	4

<i>Second Term</i>	<i>Credits</i>
Arts [ARTS]	3
ENGLISH 101 [WRTG]	3
MATH 172	4
MATH 220, 225, or 230	2 or 3
PSYCH 105 [SSCI]	3

Second Year

<i>First Term</i>	<i>Credits</i>
ENGLISH 201 [WRTG] or 301 [WRTG]	3

Equity and Justice [EQJS]	3
MATH 216	3
MATH 273	2
<u>MATH 325</u>	<u>3</u>
PHYSICS 201 [PSCI]	3
PHYSICS 211 [PSCI]	1
<i>Second Term</i>	<i>Credits</i>
Diversity [DIVR]	3
MATH 301	3
MATH 315	3
MATH 398	1
Electives	6
Complete Writing Portfolio	
Third Year	
<i>First Term</i>	<i>Credits</i>
MATH 300 [M]	3
MATH 330	3
MATH 403	3
Foreign Language, if necessary, or Electives	6
<i>Second Term</i>	<i>Credits</i>
MATH 320 [M]	3
STAT 360 or 443	3
300-400-level MATH Electives ¹	3
Foreign Language, if necessary, or Electives	6
Fourth Year	
<i>First Term</i>	<i>Credits</i>
MATH 401 [M]	3
MATH 431	3
Electives	9
<i>Second Term</i>	<i>Credits</i>
MATH 432 [CAPS]	3
300-400-level MATH Electives ¹	3
300-400-level Electives	3
Electives	6
Exit Interview	

	<p>Footnotes</p> <p>¹ MATH Elective courses include any 3-credit 300-400-level MATH courses not required to fulfill a major requirement.</p>																																					
<p>Molecular Biosciences Revise requirements for BS in Biochemistry - Biophysics Option</p>	<p>Biochemistry - Biophysics Option (120 Credits)</p> <p>A student may be admitted to a School of Molecular Biosciences Biochemistry major upon making their intention known to the department. To remain in good standing, a student must meet the following two requirements:</p> <p>Complete BIOLOGY 106, BIOLOGY 107, CHEM 105 and CHEM 106, MBIOS 301, MBIOS 303, MBIOS 305, or transfer equivalents, with a minimum grade of C.</p> <p>After 30 credits, maintain a minimum cumulative GPA of at least 2.5.</p> <p>A Biochemistry major who falls below the minimum requirements will be released from the program according to Academic Regulation 53.</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>First Year</p> <table data-bbox="391 961 1382 1507"> <thead> <tr> <th><i>First Term</i></th> <th><i>Credits</i></th> </tr> </thead> <tbody> <tr> <td>BIOLOGY 106 [BSCI] or 107 [BSCI]</td> <td>4</td> </tr> <tr> <td>CHEM 105 [PSCI]</td> <td>4</td> </tr> <tr> <td>ENGLISH 101 [WRTG]</td> <td>3</td> </tr> <tr> <td>MATH 106 (accelerated) or Elective¹</td> <td>3</td> </tr> <tr> <td>MATH 108 (accelerated) or Elective¹</td> <td>2</td> </tr> <tr> <th><i>Second Term</i></th> <th><i>Credits</i></th> </tr> <tr> <td>BIOLOGY 106 or 107</td> <td>4</td> </tr> <tr> <td>CHEM 106</td> <td>4</td> </tr> <tr> <td>HISTORY 105 [ROOT]</td> <td>3</td> </tr> <tr> <td>MATH 171 [QUAN]</td> <td>4</td> </tr> <tr> <td><u>MBIOS 138</u></td> <td><u>1</u></td> </tr> </tbody> </table> <p>Second Year</p> <table data-bbox="391 1604 1382 1854"> <thead> <tr> <th><i>First Term</i></th> <th><i>Credits</i></th> </tr> </thead> <tbody> <tr> <td>CHEM 345</td> <td>4</td> </tr> <tr> <td>MATH 172</td> <td>4</td> </tr> <tr> <td>MBIOS 201 [COMM]</td> <td>3</td> </tr> <tr> <td>MBIOS 301</td> <td>4</td> </tr> <tr> <td><u>Social Sciences [SSCI]</u></td> <td><u>3</u></td> </tr> </tbody> </table>	<i>First Term</i>	<i>Credits</i>	BIOLOGY 106 [BSCI] or 107 [BSCI]	4	CHEM 105 [PSCI]	4	ENGLISH 101 [WRTG]	3	MATH 106 (accelerated) or Elective ¹	3	MATH 108 (accelerated) or Elective ¹	2	<i>Second Term</i>	<i>Credits</i>	BIOLOGY 106 or 107	4	CHEM 106	4	HISTORY 105 [ROOT]	3	MATH 171 [QUAN]	4	<u>MBIOS 138</u>	<u>1</u>	<i>First Term</i>	<i>Credits</i>	CHEM 345	4	MATH 172	4	MBIOS 201 [COMM]	3	MBIOS 301	4	<u>Social Sciences [SSCI]</u>	<u>3</u>	<p>8-24</p>
<i>First Term</i>	<i>Credits</i>																																					
BIOLOGY 106 [BSCI] or 107 [BSCI]	4																																					
CHEM 105 [PSCI]	4																																					
ENGLISH 101 [WRTG]	3																																					
MATH 106 (accelerated) or Elective ¹	3																																					
MATH 108 (accelerated) or Elective ¹	2																																					
<i>Second Term</i>	<i>Credits</i>																																					
BIOLOGY 106 or 107	4																																					
CHEM 106	4																																					
HISTORY 105 [ROOT]	3																																					
MATH 171 [QUAN]	4																																					
<u>MBIOS 138</u>	<u>1</u>																																					
<i>First Term</i>	<i>Credits</i>																																					
CHEM 345	4																																					
MATH 172	4																																					
MBIOS 201 [COMM]	3																																					
MBIOS 301	4																																					
<u>Social Sciences [SSCI]</u>	<u>3</u>																																					

<i>Second Term</i>	<i>Credits</i>
CHEM 348	4
<u>MBIOS 201 [COMM]</u>	<u>3</u>
MBIOS 303	4
PHYSICS 201	3
PHYSICS 211	1
Social Sciences [SSCI]	3
Complete Writing Portfolio	
Third Year	
<i>First Term</i>	<i>Credits</i>
Arts [ARTS]	3
Humanities [HUM]	3
PHYSICS 202	3
PHYSICS 212	1
MBIOS 305	3
<u>MBIOS 360 [M] or 304</u>	<u>2 or 3</u>
<i>Second Term</i>	<i>Credits</i>
CHEM 347	3
Diversity [DIVR]	3
MBIOS 304 <u>or 360 [M]</u>	<u>3 or 2</u>
MBIOS 401	3
MBIOS 465	3
Fourth Year	
<i>First Term</i>	<i>Credits</i>
CHEM 220	2
CHEM 222	2
Equity and Justice [EQJS]	3
MBIOS 413	3
MBIOS 466 or PHYSICS 466	3
<i>Second Term</i>	<i>Credits</i>
MBIOS 414	3
MBIOS 454 [M]	3
<u>MBIOS 460</u>	<u>3</u>
MBIOS 494 [M] [CAPS]	3
Electives	<u>9</u>
Exit Survey	

	<p>Footnotes</p> <p>¹ If required - consult advisor.</p>																																							
<p>Molecular Biosciences</p> <p>Revise requirements for BS in Biochemistry - Molecular Biology Option</p>	<p>Biochemistry - Molecular Biology Option (120 Credits)</p> <p>A student may be admitted to a School of Molecular Biosciences Biochemistry major upon making their intention known to the department. To remain in good standing, a student must meet the following two requirements:</p> <p>Complete BIOLOGY 106, BIOLOGY 107, CHEM 105 and CHEM 106, MBIOS 301, MBIOS 303, MBIOS 305, or transfer equivalents, with a minimum grade of C.</p> <p>After 30 credits, maintain a minimum cumulative GPA of at least 2.5.</p> <p>A Biochemistry major who falls below the minimum requirements will be released from the program according to Academic Regulation 53.</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>First Year</p> <table> <thead> <tr> <th><i>First Term</i></th> <th><i>Credits</i></th> </tr> </thead> <tbody> <tr> <td>BIOLOGY 106 [BSCI] or 107 [BSCI]</td> <td>4</td> </tr> <tr> <td>CHEM 105 [PSCI]</td> <td>4</td> </tr> <tr> <td>ENGLISH 101 [WRTG] or Elective</td> <td>3</td> </tr> <tr> <td>MATH 106 (accelerated) or Elective¹</td> <td>3</td> </tr> <tr> <td>MATH 108 (accelerated) or Elective¹</td> <td>2</td> </tr> <tr> <td><i>Second Term</i></td> <td><i>Credits</i></td> </tr> <tr> <td>BIOLOGY 106 or 107</td> <td>4</td> </tr> <tr> <td>CHEM 106</td> <td>4</td> </tr> <tr> <td>HISTORY 105 [ROOT]</td> <td>3</td> </tr> <tr> <td>MATH 140 [QUAN] or 171 [QUAN]</td> <td>4</td> </tr> <tr> <td><u>MBIOS 138</u></td> <td><u>1</u></td> </tr> </tbody> </table> <p>Second Year</p> <table> <thead> <tr> <th><i>First Term</i></th> <th><i>Credits</i></th> </tr> </thead> <tbody> <tr> <td>CHEM 345</td> <td>4</td> </tr> <tr> <td>MBIOS 201 [COMM]</td> <td>3</td> </tr> <tr> <td>MBIOS 301</td> <td>4</td> </tr> <tr> <td>PHYSICS 101 or 201</td> <td>3</td> </tr> <tr> <td>PHYSICS 111 or 211</td> <td>1</td> </tr> <tr> <td><u>Social Sciences [SSCI]</u></td> <td><u>3</u></td> </tr> </tbody> </table>	<i>First Term</i>	<i>Credits</i>	BIOLOGY 106 [BSCI] or 107 [BSCI]	4	CHEM 105 [PSCI]	4	ENGLISH 101 [WRTG] or Elective	3	MATH 106 (accelerated) or Elective ¹	3	MATH 108 (accelerated) or Elective ¹	2	<i>Second Term</i>	<i>Credits</i>	BIOLOGY 106 or 107	4	CHEM 106	4	HISTORY 105 [ROOT]	3	MATH 140 [QUAN] or 171 [QUAN]	4	<u>MBIOS 138</u>	<u>1</u>	<i>First Term</i>	<i>Credits</i>	CHEM 345	4	MBIOS 201 [COMM]	3	MBIOS 301	4	PHYSICS 101 or 201	3	PHYSICS 111 or 211	1	<u>Social Sciences [SSCI]</u>	<u>3</u>	<p>8-24</p>
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<i>Second Term</i>	<i>Credits</i>
CHEM 348	4
<u>MBIOS 201 [COMM]</u>	<u>3</u>
MBIOS 303	4
PHYSICS 102 or 202	3
PHYSICS 112 or 212	1
Social Sciences [SSCI]	3
Complete Writing Portfolio	
Third Year	
<i>First Term</i>	<i>Credits</i>
Arts [ARTS]	3
Humanities [HUM]	3
MBIOS 305	3
<u>MBIOS 360 [M] or 304</u>	<u>2 or 3</u>
STAT 212 or 412	3 or 4
Electives	3
<i>Second Term</i>	<i>Credits</i>
Diversity [DIVR]	3
MBIOS 304 <u>or 360 [M]</u>	<u>3 or 2</u>
MBIOS 401	3
MBIOS 465	3
Electives	3
Fourth Year	
<i>First Term</i>	<i>Credits</i>
Equity and Justice [EQJS]	3
MBIOS 404	3
MBIOS 413	3
Electives	5
<i>Second Term</i>	<i>Credits</i>
MBIOS 414	3
<u>MBIOS 460</u>	<u>3</u>
MBIOS 454 [M]	3
MBIOS 494 [M] [CAPS]	3
Lecture Elective ²	3
Electives	3
Exit Survey	

	<p>Footnotes</p> <p>¹ If required - consult advisor.</p> <p>² Lecture elective: select one from MBIOS 410, 423, 426, 440, 442, 450, 466, 478; PHYSICS 466.</p>																															
<p>Molecular Biosciences Revise requirements for BS in Genetics and Cell Biology - Molecular Biology Option</p>	<p>Genetics and Cell Biology – Molecular Biology Option (120 Credits)</p> <p>A student may be admitted to a School of Molecular Biosciences Genetics and Cell Biology major upon making their intention known to the department. To remain in good standing, a student must meet the following two requirements:</p> <p>Complete BIOLOGY 106, BIOLOGY 107, CHEM 105 and CHEM 106, MBIOS 301, MBIOS 303, MBIOS 305, or transfer equivalents, with a minimum grade of C.</p> <p>After 30 credits, maintain a minimum cumulative GPA of at least 2.5.</p> <p>A Genetics and Cell Biology major who falls below the minimum requirements will be released from the program according to Academic Regulation 53.</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. Completed core requirements may not be used to satisfy lecture or lab electives.</p> <p>First Year</p> <table data-bbox="391 1115 1382 1373"> <thead> <tr> <th><i>First Term</i></th> <th><i>Credits</i></th> </tr> </thead> <tbody> <tr> <td>BIOLOGY 106 [BSCI] or 107 [BSCI]</td> <td>4</td> </tr> <tr> <td>CHEM 105 [PSCI]</td> <td>4</td> </tr> <tr> <td>ENGLISH 101 [WRTG]</td> <td>3</td> </tr> <tr> <td>MATH 106 (accelerated) or Elective¹</td> <td>3</td> </tr> <tr> <td>MATH 108 (accelerated) or Elective¹</td> <td>2</td> </tr> </tbody> </table> <table data-bbox="391 1402 1382 1661"> <thead> <tr> <th><i>Second Term</i></th> <th><i>Credits</i></th> </tr> </thead> <tbody> <tr> <td>BIOLOGY 106 or 107</td> <td>4</td> </tr> <tr> <td>CHEM 106</td> <td>4</td> </tr> <tr> <td>HISTORY 105 [ROOT]</td> <td>3</td> </tr> <tr> <td>MATH 140 [QUAN] or 171 [QUAN]</td> <td>4</td> </tr> <tr> <td><u>MBIOS 138</u></td> <td><u>1</u></td> </tr> </tbody> </table> <p>Second Year</p> <table data-bbox="391 1759 1382 1885"> <thead> <tr> <th><i>First Term</i></th> <th><i>Credits</i></th> </tr> </thead> <tbody> <tr> <td>CHEM 345²</td> <td>4</td> </tr> <tr> <td>Humanities [HUM]</td> <td>3</td> </tr> </tbody> </table>	<i>First Term</i>	<i>Credits</i>	BIOLOGY 106 [BSCI] or 107 [BSCI]	4	CHEM 105 [PSCI]	4	ENGLISH 101 [WRTG]	3	MATH 106 (accelerated) or Elective ¹	3	MATH 108 (accelerated) or Elective ¹	2	<i>Second Term</i>	<i>Credits</i>	BIOLOGY 106 or 107	4	CHEM 106	4	HISTORY 105 [ROOT]	3	MATH 140 [QUAN] or 171 [QUAN]	4	<u>MBIOS 138</u>	<u>1</u>	<i>First Term</i>	<i>Credits</i>	CHEM 345 ²	4	Humanities [HUM]	3	<p>8-24</p>
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CHEM 345 ²	4																															
Humanities [HUM]	3																															

MBIOS 301	4
PHYSICS 101 or 201	3
PHYSICS 111 or 211	1
<i>Second Term</i>	<i>Credits</i>
Arts [ARTS]	3
<u>MBIOS 201 [COMM]</u>	<u>3</u>
MBIOS 303	4
PHYSICS 102 or 202	3
PHYSICS 112 or 212	1
Social Sciences [SSCI]	3
Complete Writing Portfolio	
Third Year	
<i>First Term</i>	<i>Credits</i>
MBIOS 201 [COMM]	3
MBIOS 304 <u>or 360 [M]</u>	<u>3 or 2</u>
MBIOS 305	3
STAT 212 or 412	3 or 4
Electives	3
<i>Second Term</i>	<i>Credits</i>
Diversity [DIVR]	3
Lecture Elective ³	3
<u>MBIOS 360 [M] or 304</u>	<u>2 or 3</u>
MBIOS 401	3
Electives	4
Fourth Year	
<i>First Term</i>	<i>Credits</i>
Equity and Justice [EQJS]	3
MBIOS 404	3
MBIOS 423	3
MBIOS 478	3
Electives	<u>3</u>
<i>Second Term</i>	<i>Credits</i>
MBIOS 402 [M]	3
<u>MBIOS 423</u>	<u>3</u>
MBIOS 442 or BIOLOGY 476	3
<u>MBIOS 460</u>	<u>3</u>
MBIOS 494 [M] [CAPS]	3

	<p>Electives 84 Exit Survey</p> <hr/> <p>Footnotes ¹ If required - consult advisor. ² CHEM 345 and 348 recommended for professional or graduate degrees. ³ Lecture elective: select one from BIOLOGY 420, 475, 476; MBIOS 410, 413, 426, 440, 442, 450, 503.</p>																											
<p>Molecular Biosciences Revise requirements for BS in Microbiology - Medical Technology Option</p>	<p>Microbiology – Medical Technology Option (120 Credits)</p> <p>A student may be admitted to a School of Molecular Biosciences Microbiology major upon making their intention known to the department. To remain in good standing, a student must meet the following two requirements:</p> <p style="padding-left: 40px;">Complete BIOLOGY 106, BIOLOGY 107, CHEM 105 and CHEM 106, MBIOS 301, MBIOS 303, MBIOS 305, or transfer equivalents, with a minimum grade of C.</p> <p style="padding-left: 40px;">After 30 credits, maintain a minimum cumulative GPA of at least 2.5.</p> <p>A Microbiology major who falls below the minimum requirements will be released from the program according to Academic Regulation 53.</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>Completed core requirements may not be used to satisfy lecture or lab electives.</p> <p>First Year</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><i>First Term</i></th> <th style="text-align: right;"><i>Credits</i></th> </tr> </thead> <tbody> <tr> <td>BIOLOGY 106 [BSCI] or 107 [BSCI]</td> <td style="text-align: right;">4</td> </tr> <tr> <td>CHEM 105 [PSCI]</td> <td style="text-align: right;">4</td> </tr> <tr> <td>ENGLISH 101 [WRTG]</td> <td style="text-align: right;">3</td> </tr> <tr> <td>MATH 106 (accelerated) or Elective¹</td> <td style="text-align: right;">3</td> </tr> <tr> <td>MATH 108 (accelerated) or Elective¹</td> <td style="text-align: right;">2</td> </tr> <tr> <td colspan="2"> </td> </tr> <tr> <th style="text-align: left;"><i>Second Term</i></th> <th style="text-align: right;"><i>Credits</i></th> </tr> <tr> <td>BIOLOGY 106 or 107</td> <td style="text-align: right;">4</td> </tr> <tr> <td>CHEM 106</td> <td style="text-align: right;">4</td> </tr> <tr> <td>HISTORY 105 [ROOT]</td> <td style="text-align: right;">3</td> </tr> <tr> <td>MATH 140 [QUAN] or 171 [QUAN]</td> <td style="text-align: right;">4</td> </tr> <tr> <td><u>MBIOS 138</u></td> <td style="text-align: right;"><u>1</u></td> </tr> </tbody> </table> <p>Second Year</p>	<i>First Term</i>	<i>Credits</i>	BIOLOGY 106 [BSCI] or 107 [BSCI]	4	CHEM 105 [PSCI]	4	ENGLISH 101 [WRTG]	3	MATH 106 (accelerated) or Elective ¹	3	MATH 108 (accelerated) or Elective ¹	2	 		<i>Second Term</i>	<i>Credits</i>	BIOLOGY 106 or 107	4	CHEM 106	4	HISTORY 105 [ROOT]	3	MATH 140 [QUAN] or 171 [QUAN]	4	<u>MBIOS 138</u>	<u>1</u>	<p>8-24</p>
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<i>First Term</i>	<i>Credits</i>
Arts [ARTS]	3
CHEM 345 ²	4
Humanities [HUM]	3
MBIOS 301	4
<i>Second Term</i>	<i>Credits</i>
Equity and Justice [EQJS]	3
MBIOS 303	4
MBIOS 305	3
Social Sciences [SSCI]	3
Complete Writing Portfolio	
Third Year	
<i>First Term</i>	<i>Credits</i>
Communication [COMM] or Written Communication [WRTG]	3
<u>Diversity [DIVR]</u>	<u>3</u>
MBIOS 304 or 360 [M]	3 or 2
PHYSICS 101 or 201	3
PHYSICS 111 or 211	1
STAT 212 or 412	3 or 4
Electives	3
<i>Second Term</i>	<i>Credits</i>
Diversity [DIVR]	3
<u>MBIOS 201 [COMM]</u>	<u>3</u>
<u>MBIOS 360 [M] or 304</u>	<u>2 or 3</u>
MBIOS 410	3
MBIOS 450	3
PHYSICS 102 or 202	3
PHYSICS 112 or 212	1
Electives	<u>3</u>
Fourth Year	
<i>First Term</i>	<i>Credits</i>
BIOLOGY 418	4
MBIOS 404	3
MBIOS 430 [M]	3
MBIOS 440	3
<u>MBIOS 460</u>	<u>3</u>
Electives	3

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CHEM 106	4																							
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MATH 140 [QUAN] or 171 [QUAN]	4																							

<u>MBIOS 138</u>	<u>1</u>
Second Year	
<i>First Term</i>	<i>Credits</i>
Arts [ARTS]	3
CHEM 345 ²	4
Humanities [HUM]	3
MBIOS 301	4
<i>Second Term</i>	<i>Credits</i>
<u>MBIOS 201 [COMM]</u>	<u>3</u>
MBIOS 303	4
MBIOS 305	3
Social Sciences [SSCI]	3
Electives	3
Complete Writing Portfolio	
Third Year	
<i>First Term</i>	<i>Credits</i>
<u>Diversity [DIVR]</u>	<u>3</u>
Equity and Justice [EQJS]	3
MBIOS 201 [COMM]	3
MBIOS 304 <u>or</u> 360 [M]	<u>3 or 2</u>
PHYSICS 101 or 201	3
PHYSICS 111 or 211	1
STAT 212 or 412	3 or 4
<i>Second Term</i>	<i>Credits</i>
Diversity [DIVR]	3
<u>MBIOS 360 [M] or 304</u>	<u>2 or 3</u>
MBIOS 410	3
MBIOS 450	3
PHYSICS 102 or 202	3
PHYSICS 112 or 212	1
Electives	3
Fourth Year	
<i>First Term</i>	<i>Credits</i>
Lecture Elective ³	3
MBIOS 404	3
MBIOS 430 [M] <u>MBIOS 460 or 411 [M]</u>	<u>3</u>

	<p> MBIOS 440 3 Electives 3 <i>Second Term</i> <i>Credits</i> MBIOS 442 3 MBIOS 494 [M] [CAPS] 3 Electives 9 Exit Survey <hr/> Footnotes ¹ If required - consult advisor. ² CHEM 345 and 348 recommended for professional or graduate degrees. ³ Lecture elective: select one from MBIOS 342, 401, 413, 426, 446; BIOLOGY 418, ENTOM 343, FS 416. </p>	
<p> Strategic Communication Revise requirements for Health Communication and Promotion Minor </p>	<p> Health Communication and Promotion Minor The Health Communication and Promotion Minor requires a minimum of 18 credits. Required courses included COM 101 or 105, COM 210, and COM <u>COMSTRAT 478</u>. Additional requirements include one content creation course from <u>COMSTRAT 301, 310, 383, 477, and COM-395</u>; and two courses in specialized message creation and evaluation from COM 309, 486, <u>COMSTRAT 476, 483, and COMSTRAT 485</u>. Nine credits of upper-division work must be taken in residence at WSU or through WSU-approved education abroad or educational exchange courses. Students may be admitted to the minor once they have completed 60 credits, have a WSU cumulative GPA of 2.7 or better, and are admitted to a major. Transfer students can be admitted to this minor after completing 60 total credits and one semester at WSU with a 2.7 or higher WSU GPA. Students must maintain a 2.0 cumulative GPA to remain in the minor. Students pursuing a degree in the Murrow College may apply only two courses from their major coursework to this minor. Check with the Murrow College Student Services Office for additional information. </p>	<p>8-24</p>