## UNDERGRADUATE AND PROFESSIONAL MAJOR CHANGE BULLETIN NO. 4 Fall 2016

#### --REQUIREMENTS—

#### **Faculty Senate Approved November 17, 2016**

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.

Dept	Proposed		Effective Date
Chemistry {S}Correct schedule of studies to include missed revisions when 1 <sup>st</sup>	<b>Bachelor of Arts in Chemistry - Standard</b> <b>Hours</b> )	Option (120	8-16
submitted as new degree option for Bachelor of	First Year		
Arts in Chemistry -	First Term	Hours	
Standard Option	CHEM 105 [PSCI]	4	
(Pullman)	Creative & Professional Arts [ARTS]	3	
	ENGLISH 101 [WRTG]	3	
	Humanities [HUM]	3	
	MATH 106 <sup>1</sup>	3	
	Second Term	Hours	
	BIOLOGY 107 or 106 [BSCI]	4	
	CHEM 106	4	
	HISTORY 105 [ROOT]	3	
	MATH 108 <sup>1</sup>	<u>32</u>	
	Social Sciences [SSCI]	3	
	Second Year		
	First Term	Hours	
	CHEM 220	2	
	CHEM 222	2	
	Diversity [DIVR]	3	
	MATH 140 [QUAN] $^{1}$	4	
	PHYSICS 101 <sup>2</sup>	4	
	Second Term	Hours	
	BIOLOGY 106 or 107	4	
	CHEM 301	3	
	PHYSICS 102 <sup>2</sup>	4	
	Electives <sup>3</sup>	3	
	Complete Writing Portfolio		

Third Year	
First Term	Hours
CHEM 345	4
CHEM 338 or 331 <sup>4</sup>	3
CHEM 398	1
STAT 212	4
Electives <sup>3</sup>	<del>2</del> 3
Second Term	Hours
CHEM 348	4
CHEM 370 or MBIOS 303	3 or 4
Creative & Professional Arts [ARTS], Humanities [HUM], or Social Sciences [SSCI]	3
ENGLISH 402 [WRTG] [M]	3
Electives <sup>3</sup>	2
Fourth Year	
First Term	<b>Hours</b>
Advanced Chemistry Elective <sup>5</sup>	2
Foreign Language, if needed, and/or Electives <sup>3,6</sup>	12
Second Term	Hours
Advanced Chemistry Electives <sup>5</sup>	3

#### **Footnotes**

CHEM 485 [CAPS] [M]

- <sup>1</sup> The minimum math requirement is MATH 140. Students who place into MATH 140 or higher are not required to take MATH 106 or 108 but must take an additional 5 credits of electives. MATH 171 may be substituted for MATH 140. Students who place into MATH 140 should take it during their first year, and may delay one of the UCORE courses [ARTS], [HUM], or [SSCI].
- <sup>2</sup> PHYSICS 201 and 202 may be substituted for PHYSICS 101 and 102.

Foreign Language, if needed, and/or Electives<sup>3,6</sup>

- <sup>3</sup> At least 11 credits in addition to those specified must be at the 300-or\_400-level, for a total of at least 40 upper division credits.
- <sup>4</sup> CHEM 331 has prerequisites of PHYSICS 202 and MATH 273, each with a C or better.
- <sup>5</sup> Advanced Chemistry Electives (minimum 5 credits): Approved courses include CHEM 347, 425, 426, 490, 499 (maximum 2 credits), any CHEM 5XX500-level CHEM course, or STAT 412. Other electives may be used with permission. The requirement is for at least 5 credits.
- <sup>6</sup> The Foreign Language requirement is that of the College of Arts and Sciences and may be fulfilled with two years of a foreign language in high school. Students are encouraged to pursue a minor while fulfilling the electives requirement.

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Chemistry {S}Correct schedule of studies to include missed	Bachelor of Arts in Chemistry - Secondary Option (141 Hours)	y Education	8-16
revisions when 1st			
submitted as new degree	First Year		
option for Bachelor of	First Term	Hours	
Arts in Chemistry -	CHEM 105 [PSCI]	4	
Secondary Education Option (Pullman)	Creative & Professional Arts [ARTS]	3	
Option (1 difficult)	ENGLISH 101 [WRTG]	3	
	Humanities [HUM]	3	
	MATH 106 <sup>1</sup>	3	
	Second Term	Hours	
	BIOLOGY 107 [BSCI]	4	
	CHEM 106	4	
	HISTORY 105 [ROOT]	3	
	MATH 108 <sup>1</sup>	$\begin{bmatrix} 2 \\ 2 \end{bmatrix}$	
	Social Science [SSCI]	3	
	Second Year		
	First Term	Hours	
	CHEM 220	2	
	CHEM 222	2	
	Diversity [DIVR]	3	
	MATH 140 [QUAN] <sup>1</sup>	4	
	PHYSICS 101 <sup>2</sup>	4	
	Second Term	Hours	
	BIOLOGY 106	4	
	CHEM 301	3	
	GEOLOGY <u>101 or</u> 102	3	
	PHYSICS 102 <sup>2</sup>	4	
	TCH LRN 301	3	
	Complete Writing Portfolio		
	Third Year		
	First Term	Hours	
	BIOLOGY 430	3	
	CHEM 338 <sup>3</sup>	3	
	CHEM 345	4	
	CHEM 398	1	
	STAT 212	4	
	Second Term	Hours	
	CHEM 348	4	
	CHEM 370 <sup>4</sup>	3	

Creative & Professional Arts [ARTS], Humanities [HUM], or Social Sciences [SSCI]	3
Writing [WRTG] or Communications [COMM] <sup>5</sup>	3
Foreign Language <sup>6</sup> , if needed	0 or 4
Apply to College of Education Teaching Certificate Program	
Summer	Hours
TCH LRN 317	2
Fourth Year	
First Term	Hours
Advanced Chemistry Elective <sup>7</sup>	3
ENGR 120	2
Foreign Language <sup>6</sup> , if needed	0 or 4
TCH LRN 464	3
TCH LRN 465	3
TCH LRN 466	3
Second Term	Hours
Advanced Chemistry Elective <sup>7</sup>	2
CHEM 485 [CAPS][M]	3
ED PSYCH 468	3
TCH LRN 467 [M]	3
TCH LRN 469	3
TCH LRN 470	3
Total Waren	
Fifth Year	
First Term	Hours
TCH LRN 415	16

#### **Footnotes**

- <sup>1</sup> The minimum math requirement is MATH 140. Students who place into MATH 140 or higher are not required to take MATH 106 or 108. MATH 171 may be substituted for MATH 140. Students who place into MATH 140 should take it during their first year, and may delay one of the UCORE courses, [ARTS], [HUM], or [SSCI].
- <sup>2</sup> PHYSICS 201 and 202 may be substituted for PHYSICS 101 and 102.
- <sup>3</sup> CHEM 331 or 332 may replace CHEM <del>37</del>0 <u>338</u>.
- <sup>4</sup> MBIOS <u>303</u> may replace CHEM 370.
- One from ENGLISH 201, 301, 302, 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, will meet the College of Education requirement for the second [WRTG] course.
- <sup>6</sup> The Foreign Language requirement is that of the College of Arts and Sciences, and may be met by 2 years of a single foreign language in high school.
- Advanced Chemistry Electives (minimum 5 credits): Approved courses include CHEM 347, 425, 426, 490, 499 (maximum 2 credits), any CHEM 5XX500-level CHEM course, or STAT 412. Other electives may be used with permission. The requirement is for at least 5 credits.

Civil and Environmental	Bachelor of Science in Civil Engineering	8-17
Engineering {S} Drop General Option.	Drop the sub-plan (option) "General" for the Bachelor of Science in Civil Engineering. There is only one plan with no additional options or sub-plans.	
College of Arts and	The College of Arts and Sciences (CAS) may require CAS students	8-17
Sciences Validate [SCI] requirements for College of Arts and Sciences degrees where required.	using the SCIENCE [SCI] option for fulfillment of the UCORE requirement "Inquiry in the Natural Sciences" to complete the SCIENCE 101 [SCI] and 102 [SCI] series. This is currently stated as a requirement in the CAS graduation requirements on page 33 and 35 of the 2016 WSU Catalog and in a footnote on all applicable CAS 4 year plans.	
Criminal Justice and	Criminal Justice and Criminology (120 Hours)	8-17
Criminology Revise graduation requirements for major in Criminal Justice & Criminology	A student may certify as a criminal justice and criminology major upon completing 24 semester hours credits and a minimum WSU cumulative GPA of 2.50 or better.	
	Students who major in criminal justice and criminology must complete the 15 hour 18 credit criminal justice core (CRM J 101, 201, 205, 330, 450, and either 320 or 420); 3 credits from CRM J 365 or 390; 6 hours credits in research methods and quantitative analysis; 6 hours 9 credits in criminal justice institutions courses; 9 hours 6 credits in criminal justice electives; 9 hours from any upper division political science courses; and 3 credits from POL S 101 or 206 hours in specified College of Arts and Sciences electives.	
	First Year	
	First Term Hours	
	CRM J 101 [SSCI] 3	
	ENGLISH 101 [WRTG] 3	
	POL S 101 or 206	
	Quantitative Reasoning [QUAN] 3 or 4	
	Social Sciences [SSCI] 3	
	Electives 3	
	Second Term Hours	
	Communication [COMM] or Written Communication [WRTG]	
	Creative & Professional Arts [ARTS] 3	
	CRM J 201 3	
	<u>CRM J 205 [DIVR]</u> 3	
	HISTORY 105 [ROOT]	

Second Year	
First Term	Hours
Biological Sciences [BSCI] with lab or SCIENCE 101 [SCI] $^1$	4
CRM J 330	3
Diversity [DIVR]	3
Humanities [HUM]	3
Electives	<u>3-6</u>
Second Term	Hours
Creative & Professional Arts [ARTS], Humanities [HUM], or Social Sciences [SSCI]	3
CRM J Electives <sup>2</sup>	3
<u>CRM J 365 or 390</u>	<u>3</u>
CRM J Institution Course <sup>32</sup>	3
Physical Sciences [PSCI] with lab or SCIENCE 102 [SCI] <sup>1</sup>	4
300-400-level POL S Course <sup>4</sup>	3
Electives	<u>3</u>
Complete Writing Portfolio	
TPL 2 J. X7	
Third Year	<b>II</b>
First Term	Hours
CRM J 311	3
CRM J 320 or 420 [M]	3
Electives  CRM J Electives <sup>2</sup>	9
	3
CRM J Institution Course <sup>3</sup>	3
300-400-level POL S Course <sup>4</sup>	3
Second Term	Hours
CRM J 321	3
CRM J Electives <sup>23</sup>	3
CRM J Institution Course <sup>32</sup>	3
300-400-level POL S Course <sup>4</sup>	3
Electives <sup>3</sup>	6
Fourth Year	
First Term	Hours
CRM J 403 [CAPS] or Integrated Capstone [CAPS]	3
CRM J Electives <sup>23</sup>	<u>3</u>
Foreign Language, if necessary, and/or Electives <sup>3</sup>	<del>7</del> 9
Non CRM J Departmental Elective <sup>5</sup>	3
<del>-</del>	Hours
Second Term	Hours

	CRM J Institution Course <sup>32</sup>	3	
	Foreign Language, if necessary, and/or Electives <sup>3</sup>	<u>3</u> 47	
	Electives	7	
	Electives	7	
	Footnotes		
	<sup>1</sup> To meet University and College of Arts and Sciences requirements, students must [BSCI] course with lab and [PSCI] course with lab or SCIENCE 101 [SCI] and SC 102 [SCI]. SCIENCE 101 [SCI] is offered Fall semester and is a prerequisite for SCIENCE 102 [SCI]. SCIENCE 102 [SCI] is offered Spring semester.		
	<sup>32</sup> CRM J Institution courses are (69 credits): CRM J 365, 370, 380, and 385.		
	<sup>23</sup> CRM J Electives (6 credits): Any CRM J course not used to fulfill other CRM J requirements. CRM J and general electives must include coursework to meet Univ requirement of 2 [M] courses and 40 Upper Division credits.	ersity	
	Choose from any 300 or 400 level POL S course.  Non CRM J Departmental Electives are (3 credits): PSYCH 324, 350, SOC 300 [N	<del>4], 360,</del>	
	<del>362, and 384.</del>		
Environment	<b>Environmental and Ecosystem Sciences (120 Hours)</b>		8-17
Revise graduation requirements for			
Bachelor of Science in	First Year		
Earth and Environmental		Hours	
Science - Environmental	BIOLOGY 106	4	
and Ecosystem Sciences	ENVR_SCI 101 [BSCI]	4	
major	HISTORY 105 [ROOT]	3	
	MATH 106 or electives <sup>1</sup>	3	
	Foreign Language, if necessary <sup>2</sup>	0-4	
		Hours	
	CHEM 101 [PSCI] or 105 [PSCI]	4	
	COM 102 [COMM] or H D 205 [COMM]	3	
	Creative & Professional Arts [ARTS]	3	
		3	
	ENGLISH 101 [WRTG]	.	
	GEOLOGY 101 or 102	$\frac{4}{3}$	
	Humanities [HUM] MATH 108 or electives <sup>1</sup>		
	WATH 108 of electives	2	
	Second Year		
	First Term	Hours	
	BIOLOGY 107	4	
	ECONS 101 [SSCI]	3	
	GEOLOGY 210 or ENVR SCI 250 <sup>2</sup>	3 or 4	
	PHYSICS 101 or GEOLOGY 101	4	
	Foreign Language, if necessaryneeded <sup>23</sup>	0 - 4	
	200-level Required Electives <sup>34</sup>	2 or 3	
	_		
		.	
	Second Term CHEM 102 or 106	Hours 4	

Creative & Professional Arts [ARTS]	3
Humanities [HUM]	<u>3</u>
NATRS 300 or BIOLOGY 372 43	3 or 4
TAT 212 [QUAN], MATH 140 [QUAN], or 171 [QUAN]	4
Foreign Language, if needed <sup>3</sup>	0 - 4
Complete Writing Portfolio	
hird Year	
irst Term	Hours
OM 102 [COMM] or H D 205 [COMM]	3 or 4
reative & Professional Arts [ARTS], Humanities [HUM], or	
ocial Sciences [SSCI]	<u>3</u>
Iodeling and Spatial Analysis Requirement⁵	3 or 4
OIL SCI 368	<u>3</u>
TAT 360, 370, or 412 <sup>6</sup>	3
Vater Science Requirement <sup>7</sup>	3
rofessional Electives <sup>85</sup>	7
econd Term	Hours
reative & Professional Arts [ARTS], Humanities [HUM], or	3
ocial Sciences [SSCI]	
iversity [DIVR], if needed, or elective 96	3
erth Systems Requirement <sup>10</sup>	3
EOLOGY 315 or NATRS 460	<u>3</u>
ATRS 312 [DIVR] or POL S 430	<u>3</u>
ociety and Environmental Management Requirement <sup>11</sup>	3 or 4
rofessional Electives <sup>85</sup>	4
OE Experiential Requirement or Elective <sup>7</sup>	<u>3</u>
ourth Year	
irst Term	Hours
tegrative Capstone [CAPS] <sup>12</sup>	3
ATRS 454 [CAPS] [M] or ENVR SCI 404 [CAPS] [M] <sup>8</sup>	<u>3</u>
ΓΑΤ 360, 370, 412, or NATRS 404	<u>3</u>
rofessional Electives <sup>85</sup>	<del>10</del> 7
riting in the Major $[M]^{\frac{138}{2}}$	3
econd Term	Hours
NGLISH 301 or 402 [M]	3
experiential Elective 14	3
rofessional Electives <sup>85</sup>	7 <u>13</u>
Vriting in the Major [M] or elective 138	3
xit Survey <sup>159</sup>	
ootnotes	
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- MATH 106 and 108 are required courses. However, if students have tested into or taken MATH 140, 171, 172 or ALEKS with a 7080% or better, MATH 106 and 108 will be waived. If waived, students may need to take additional credits to meet the University minimum of 120 credits.
- <sup>42</sup> Alternative to NATRS 300 is Students who take ENVR SCI 250 must also take BIOLOGY 372.
- 23 Two years of high school foreign language or at least two semesters of college-level foreign language are required by the College of Arts and Sciences for graduation.
- <sup>34</sup> Approved 200-level required electives by campus include: (Pullman) ENVR SCI, 250, 275, 285, GEOLOGY 230 or NATRS 204; (Tri Cities) GEOLOGY 230; (Vancouver) ENVR SCI, 250, 275, or GEOLOGY 230. Not all courses available on all campuses.
- Modeling and Spatial Analysis by campus: (Pullman) BIOLOGY 340, ENVR SCI 310, or SOIL SCI 368; (Tri-Cities) ENVR SCI 310; (Vancouver) BIOLOGY 340 or ENVR SCI 310.
- <sup>6</sup> MATH 172 is a prerequisite for STAT 360 and 370.
- Water Science by campus: (Pullman) GEOLOGY 315 or NATRS 460; (Tri-Cities) GEOLOGY 230 or 475; (Vancouver) BIOLOGY 308 or ENVR SCI 463.
- Professional electives (31 credits) are courses selected by students in concert with their advisor and pertain to their major and/or to a specific sub-discipline of interest. Professional electives may also include courses from outside of their major as needed to complete a minor in another field of study. Approved courses include but are not limited to: ECONS 330, ENVR SCI 275, 285, or any 300-400-level ENVR SCI, GEOLOGY, NATRS, or SOIL SCI course, GEOLOGY 210, 230, or any 300-400-level GEOLOGY course, NATRS 204, or any 300-400-level NATRS course, any 300-400-level SOIL SCI course, minors in Sociology, Political Science, Criminal Justice and Geospatial Analysis, or as approved by advisor.
- 96 NATRS 312 satisfies both the DIVR and the Society and Environmental Management requirements for Pullman campus.
- Earth Systems by campus: (Pullman) GEOLOGY 303; (Tri Cities) GEOLOGY 390; (Vancouver) ENVR-SCI 410.
- Society and Environmental Management by campus: (Pullman) ENVR SCI 444 or NATRS 312; (Tri Cities) ENVR SCI 335 or 444; (Vancouver) ENVR SCI 335 or 444.
- <sup>12</sup> Approved Integrated Capstone courses include: BIOLOGY 401 (Tri Cities and Pullman), BIOLOGY 408 (Pullman), and (Vancouver) as approved by advisor.
- Writing in the Major by campus: (Pullman) NATRS 411, 446, 450, 454, 464; (Tri-Cities) ENVR SCI 335 and 404; (Vancouver) ENVR SCI 335 and 404.
- Experiential Requirement before graduation. This requirement is designed to give students experience that they will not receive in the traditional classroom oriented course, and to better prepare them for a successful career after graduation. Approved courses include-Students may choose 3 credits of coursework from (Pullman) ENVR SCI 492, 495, 499, NATRS 479; (Tri-Cities) ENVR SCI 492, 495; (Vancouver) ENVR SCI 492, 495; or as approved by advisor. As an alternative to coursework, students may meet the requirement by documenting at least 135 hours of relevant practical experience. Students choosing the practical experience option may need an additional 3 credits of electives to meet the University requirement of 120 total credits. Students can also meet the requirement by documenting at least 135 hours of volunteer or paid work related to their field of study and approved by their advisor. This allows students to obtain relevant experience without the constraints of a course taught during a particular semester.
- The School of the Environment requires students to complete 3 [M] courses. Check with advisor for course recommendation
- 459 Students must complete a School of the Environment exit survey, administered during the final semester.

# Foreign Languages and Cultures

Restored minor in Russian Area Studies

## Russian Area and Culture Studies

A minimum of 17 credits is required. A foundation of the target language, Russian 203 (4 credits) and Russian 204 (4 credits), is required; in addition, 3 upper-division courses (9 credits) of further

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knowledge must be taken from any of these: RUSSIAN 321, 361, 410, 430, 462, 463 or HISTORY 466. A minimum of 9 credits with a letter grade must be taken in residence at WSU, of which 3 must be at the 300-400-level. All courses must be passed with a grade of C or better. Only courses thus designated in the Catalog may be repeated for credit toward the minor. Courses counting in the Russian Area and Culture Studies Minor may not be counted towards a major in International Area Studies (i.e., Latin America Area Studies, German Area Studies, European Area Studies, French and Francophone Area Studies). Russian courses of 105, 205, and 305 may not count towards the minor. Students must complete an exit proficiency exam during the semester in which they complete the last language course of the minor. Credit hours for the minor must include 9 hours of upper division coursework taken in residence at WSU or through WSU approved education abroad or educational exchange course. For courses taken in Study Abroad Programs or as other transfer credits, please check with your advisor.

### Politics, Philosophy, and Public Affairs {S}Correct Schedule of Studies to remove nonmajor [M] designator and adjust footnote 4 for Bachelor of Arts in Political Science - Pre-

Law Option

Political Science - Pre-Law Option (120 Hours)		8-16
Third Year		
First Term	Hours	
300-400-level POL S Elective <sup>2</sup>	3	
CRM J 320 or 420 <del>[M]</del>	3	
POL S 402	3	
Foreign Language, if necessary, and/or Electives	5	
Second Term	Hours	
300-400-level POL S Elective <sup>2</sup>	3	
POL S 404 [M]	3	
Foreign Language, if necessary, and/or Electives	9	
Fourth Year		
First Term	Hours	
300-400-level POL S Elective <sup>2</sup>	3	
Diversity [DIVR]	3	
300-400-level Electives	9	
Second Term	Hours	
Integrative Capstone [CAPS]	3	
PHIL 470	3	
300-400-level Electives	8	

#### Footnotes

- <sup>1</sup> To meet University and College of Arts and Sciences requirements, students must take a [BSCI] course with lab and [PSCI] course with lab or SCIENCE 101 [SCI] and SCIENCE 102 [SCI]. SCIENCE 101 [SCI] is offered Fall semester and is a prerequisite for SCIENCE 102 [SCI]. SCIENCE 102 [SCI] is offered Spring semester.
- $^2$  POL S Electives  $\frac{1}{100}$  need to include an additional [M] course to fulfill University requirements.