UNDERGRADUATE AND PROFESSIONAL MAJOR CHANGE BULLETIN NO. 8 Spring 2017

--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
Chemical Engineering and Bioengineering Revise graduation	Bioengineering, General Option (120 Hours)		8-17
requirements for	First Year		
Bachelor of Science in	First Term	Hours	
Bioengineering - General	CHEM 105 [PSCI]	4	
Option	Creative & Professional Arts [ARTS]	3	
	ENGLISH 101 [WRTG]	3	
	ENGR 120 ¹	2	
	MATH 171 [QUAN]	4	
	Second Term	Hours	
	BIO ENG 140	1	
	BIOLOGY 107 [BSCI]	4	
	CHEM 106	4	
	HISTORY 105 [ROOT]	3	
	MATH 172	4	
	Second Year		
	First Term	Hours	
	BIO ENG 205	1	
	CHE 201	3	
	Humanities [HUM]	3	
	MATH 220	2	
	MATH 273	2	
	PHYSICS 201	4	
	Second Term	Hours	
	BIO ENG 210	2	
	CE 211	3	
	MATH 315	3	
	PHYSICS 202	4	

STAT 370 or 423	3
Complete Writing Portfolio	
Third Year	
First Term	Hours
BIO ENG 321	3
BIO ENG 322 [M]	1
BIO ENG 350	3
CHE 310	3
E E 261	3
Second Term	Hours
BIO ENG 330	3
BIO ENG 340	4
Bioengineering elective ⁴²	3
Diversity [DIVR]	3
ECONS 101 [SSCI] or 102 [SSCI]	3
Fourth Year	
First Term	Hours
BIO ENG 410 [M]	3
BIO ENG 440	4
Communication [COMM] or Written Communication [WRTG]	3
Technical electives $\frac{23}{2}$	6
Second Term	Hours
BIO ENG 411 [CAPS]	3
Bioengineering electives ⁴²	3
Technical electives $\frac{23}{2}$	6
Elective	1
Complete BIO ENG Exit Interview	

Footnotes

³ credit 300-400-level engineering course may be substituted for ENGR 120 by approval of advisor.

⁴² 6 credits of electives must have a BIO ENG subject, selected from the following: BIO ENG 425, 455, 476, or BIO ENG 481.

²³ 12 credits of electives may be either BIO ENG courses (not used to fulfill Bioengineering elective requirements) from Footnote 42, or other relevant engineering or science courses from the following: BIO ENG 488, 495, 499; BIOLOGY 106, 251, 301, 315, 340, 352, 353, 494; CE 315, 463; CHE 301, 334, 475, 476; CHEM 345, 348, 370; CPT S 121; E E 262; MBIOS 301, 303, 304, 305, 306, 401/501, 413, 414, 426, 465, 478; ME 116, 212, 216, 301, 303, 310, 311, 401, 472, 473; MSE 201, 302, 401, 402, 403, 406/506, 413; NEUROSCI 301, 302, 305, 403 [M], 404, 425, 426, 430 [M]; PHIL 365; PHYSICS 466.

Design and Construction Revise graduation requirements for	Construction Management (Second through 193 Hours)	Fourth years) (92 8-17	7
Bachelor of Science in	Second Year		
Construction	First Term	Hours	
Management (Second	ARCH 351	3	
through Fourth Years)	B LAW 210	3	
	CST M 201	3	
	CST M 222	2	
	CST M 254	2	
	PHYSICS 101 or 201	4	
	Second Term	Hours	
	ACCTG 230	3	
	ARCH 352	3	
	BLAW 210	<u>3</u>	
	CST M 202	3	
	CST M 252	4	
	Diversity [DIVR] or Humanities [HUM] ¹	3	
	Complete Writing Portfolio		
	Third Year		
	First Term	Hours	
	C E 302	3 2	
	CST M 332	3	
	CST M 368	3	
	CST M 370	3	
	CST M 451	3	
	Second Term	Hours	
	Biological Sciences [BSCI] with lab	4	
	CST M 333	3	
	CST M 356	3	
	CST M 362 [M]	3	
	CST M 371	3	
	Fourth Year		
	First Term	Hours	
	ARCH 463	3	
	CST M 301 or MGMT 301	3	
	CST M 460	3	
	CST M 462	3	
	300-400-level CST M Elective	3	

	Second Term	Hours	
	CST M 473	3	
	CST M 475 [M]	3	
	Diversity [DIVR] or Humanities [HUM] ¹	<u>3</u>	
	Integrative Capstone [CAPS]	3	
	300-400-level Business Elective ²	3	
	300-400-level CST M Elective	3	
	Footnotes 1 University Requirements include 3 hours of [HUM] and 3 hours of [DIVR]. 2 ECONS 327, WOMEN ST 315, or any 300-400-level ACCTG, B LAW, ENTRP, FIN, BUS, MGMT, MGTOP, MIS, or MKTG course not used to fulfill other requirements.	НВМ, І	
Educational	Sport Management		8-17
Leadership, Sport			
Studies, and	The minor in sport management requires 18 semester hours of cour	se work.	
Psychology	The minor is designed for students with an interest in sport organiz sport-related business. Sport management is an appropriate area for	ations or	
Revise minor in Sport	with a variety of career interests, including: business, communicati		
Management	education, kinesiology, law, and the social sciences. To be eligible		
	as a sport management minor a student must have earned at least 6		
	hours, have a minimum cumulative GPA of at least $\frac{2.5}{2.75}$ and be		
	in a major. Graded courses in the minor may not be taken pass/fail.		
	program director coordinator must approve any exceptions to these requirements. Required courses include SPMGT 276 and 290; and		
	hours from SPMGT 367 or SOC 245, and 9 hours from SPMGT 36		
	377, <u>384,</u> 394 (only Summer enrollment), 464, 468, 496, 497. Cred		
	for the minor must include 9 hours of upper-division work taken in		
	residence at WSU or through WSU-approved education abroad or		
	educational exchange courses.		
History	History - Education Option (120 Hours)		8-17
Revise graduation			
requirements for Bachelor of Arts in			
History – Education	First Year		
Option	First Term	Hours	
	Biological Sciences [BSCI] with lab or SCIENCE 101 [SCI] ¹	4	
	HISTORY 101 [HUM]	3	
	HISTORY 105 [ROOT]	3	
	Quantitative Reasoning [QUAN]	3 or 4	
	_		
	Second Term	Hours	
	ECONS 102 [SSCI], POL S 101 [SSCI], or PSYCH 105 [SSCI] ²	3	
	ENGLISH 101 [WRTG]	3	
	HISTORY 102	3	

Physical Sciences [PSCI] with lab or SCIENCE 102 [SCI] ¹	4	
Second Year		
First Term	Hours	
200 level HISTORY course ³	3	
Creative & Professional Arts [ARTS]	3	
ECONS 102 [SSCI], POL S 101 [SSCI], or PSYCH 105 [SSCI] ²	3	
ENGLISH 201 [WRTG], 301 [WRTG], or 302, 402 [WRTG] ⁴³	3	
HISTORY 110	3	
HISTORY 308	3	
Second Term	Hours	
200-level HISTORY course ³⁴	3	
Diversity [DIVR]	3	
ECONS 102, POL S 101, or PSYCH 105 ²	3	
HISTORY 111	3	
Foreign Language, if necessary	0-4	
Complete Writing Portfolio		
(T) 1 1 7 7		
Third Year		
First Term	Hours	
300-400-level HISTORY courses ⁵	6	
HISTORY 300 [M]	3	
TCH LRN 301	3	
Foreign Language, if needed ⁶	<u>0 - 4</u>	
Second Term	Hours	
300-400-level HISTORY course ⁵	3	
HISTORY 422	3	
Integrative Capstone [CAPS]	3	
TCH LRN 317	2	
Foreign Language, or elective, if necessary needed ⁶	0 - 4	
Fourth Year		
First Term	Hours	
300-400-level HISTORY course ⁵	3	
HISTORY 469 [M]	3	
TCH LRN 464	3	
TCH LRN 465	3	
TCH LRN 466	2	
Second Term	Hours	
ED PSYCH 468	3	
HISTORY 480	3	

TCH LRN 467 [M]	3
TCH LRN 469	2
TCH LRN 470	3
Fifth Year	
First Term	Hours
TCH LRN 415	16

Footnotes

- 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.
- POL S 101 and ECONS 102 are state requirements for teacher certification in history and are recommended to fulfill UCORE or College of Arts and Sciences requirements
- 43 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.
- ³⁴ <u>200-level HISTORY course: Choose</u> one from two separate categories: 1) HISTORY 230, or 231, ; 2) 270, or 271; 3) 272, or 273, or ; 4) 275.
- History education majors must choose their 12 hours of 300-400-level electives from the following: One from HISTORY 411, 413, 414, 415, or 416; one from HISTORY 412, 417, 418, or 419; one from HISTORY 340, 341, 342, 350, 381, 382, 386, 435, 440, 441, 444, 445, 447, 448, 450, 453, 454, 455, 459, 463, 466, 467, 468, or 489; and one from HISTORY 306, 315, 331, 335, 337, 370, 373, 374, 387, 388, 425, 430, 432, 433, 434, 435, 436, 439, 464, 466, 472, 473, 474, 475, 476, 477, 483, 491, 492, 494, or 495.
- 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. Students must take a minimum of 12 credits per semester to maintain full time status.

Social Studies - Education Ontion (120 132 Hours)

History
Revise graduation
requirements for
Bachelor of Arts in
Social Studies –
Education Option

Social Studies - Education Option (120 <u>132</u> Hours)		0-17
First Year		
First Term	Hours	
Biological Sciences [BSCI] with lab or SCIENCE 101 [SCI] ¹	4	
Creative & Professional Arts [ARTS]	3	
ENGLISH 101 [WRTG]	3	
HISTORY 101	3	
Quantitative Reasoning [QUAN]	3 or 4	
Second Term	Hours	
ANTH 101 [DIVR] or 203 [DIVR]	3	
HISTORY 102	3	
HISTORY 105 [ROOT]	3	
Physical Sciences [PSCI] with lab or SCIENCE 102 [SCI] ¹	4	
SOC 101 [SSCI]	3	

8-17

Second Year	
First Term	Hours
200-level HISTORY course ²	3
ECONS 102	3
HISTORY 110 [HUM]	3
POL S 101 [SSCI] or PSYCH 105 [SSCI]	3
Foreign Language, if necessary needed	0-4
Second Term	Hours
200 level HISTORY course ²	3
ENGLISH 201 [WRTG], 301 [WRTG], or 402	3
[WRTG] ³	3
HISTORY 111	3
HISTORY 308	3
POL S 101 or PSYCH 105	3
Foreign Language, if necessary needed	0-4
Complete Writing Portfolio	
Third Year	
First Term	Hours
ANTH/PSYCH/SOC Elective ⁴	3
ECONS Elective ⁵	3
European History Elective ⁶	3
HISTORY 469 [M] or SOC 320 ⁷	3
TCH LRN 301	3
Second Term	Hours
ANTH/PSYCH/SOC Elective ⁴	3
Geography Elective ⁸	3
HISTORY 422	3
POL S Elective ⁹	3
TCH LRN 317	2
Fourth Year	
First Term	Hours
Integrative Capstone [CAPS]	3
Non-Western/Global History Elective ¹⁰	3
TCH LRN 464	3
TCH LRN 465	3
TCH LRN 466	2
Second Term	Hours
American History Elective ¹¹	3
ED PSYCH 468	3
I .	

HISTORY 480	3
TCH LRN 467 [M]	3
TCH LRN 469	2
TCH LRN 470	3
Fifth Year	
First Term	Hours
TCH LRN 415	16
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Footnotes

- ¹ 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.
- Choose one from two separate categories: 1) HISTORY 230, or 231, ; 2) 270, or 271, ; 3) 272, or 273, or; 4) 275.
- 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]
- ⁴ ANTH/PSYCH/SOC Electives (6 credits required): Approved courses include ANTH 307, 316, 320, 330, 331, 350, PSYCH 310, 324, 361, 470, SOC 320, 351, 384, and 430. Courses may not be used to fulfill more than one major requirement.
- ⁵ ECONS Elective (3 credits required): Approved courses include ECONS 320, 327, 404, 427, 428,
- ⁶ European History Elective (3 credits required): Approved courses include HISTORY 340, 341, 342, 350, 381, 382, 386, 440, 441, 444, 445, 447, 449, 450 [M], 453, 454, 455, 459, 462, 463 [M], 467, 468, and 489 [M].
- ⁷ Students who take SOC 320 may need to take an [M] course to fulfill University requirements
- ⁸ Geography Elective (3 credits required): Approved courses include ANTH 309, HISTORY 319, 495, and TCH LRN 487.
- ⁹ POL S Elective (3 credits required): Approved courses include POL S 300, 316, 427, and 455.
- ¹⁰ Non-Western/Global History Elective (3 credits required): Approved courses include HISTORY 306, 331, 335, 337, 370, 373, 374, 387, 388, 425, 430 [M], 432, 433, 434, 435, 436, 439, 466, 472[M], 473, 474, 475, 476 [M], 477 [M], 483, 491, and 492.
- ¹¹ American History Elective (3 credits required): Approved courses include HISTORY 308, 313, 314, 320 [M], 321, 322, 390, 398, 409, 410, 411, 412, 413 [M], 414, 415, 416, 417, 418, 419, 421, 422, 423, 427 [M], 486, and 496.

Fruit and Vagatable Management (120 Hours)

integrated i fant
Sciences
Revise graduation
requirements for
Bachelor of Science in

Integrated Plant

integrated Flant	rruit and vegetable Management (120 Hours)	0-17
Sciences		
Revise graduation		
requirements for	First Year	
Bachelor of Science in	First Term Hours	
Integrated Plant Sciences	CHEM 101 [PSCI] or 105 [PSCI] 4	
	ECONS 101 [SSCI] or 102 [SSCI] 3	
	<u>H D 205 or COM 102 [COMM]</u> <u>3 or 4</u>	
	HISTORY 105 [ROOT] 3	
	HORT / CROP SCI 102	
	Second Term Hours	
	CHEM 102 or 106 4	

8-17

ENGLISH 101 [WRTG]	3	
HORT / CROP SCI 202	4	
Humanities [HUM]	3	
STAT 212 [QUAN], MATH 140 [QUAN], 171 [QUAN], or 202	3 or 4	
[QUAN]	3 01 4	
Second Year	**	
First Term	Hours	
BIOLOGY 106 [BSCI] or 120 [BSCI]	4	
[COMM] Course (COM 102 [COMM] or H D 205 [COMM] recommended)	3 or 4	
Creative & Professional Arts [ARTS]	3	
Diversity [DIVR]	<u>3</u>	
SOIL SCI 201	3	
MATH 140 [QUAN], 171 [QUAN], 202 [QUAN], or STAT 212		
[QUAN]	3 or 4	
Second Term	Hours	
BIOLOGY 107	4	
ECONS 101 [SSCI] OR 102 [SSCI]	<u>3</u>	
HORT 251	4	
<u>HORT 351</u>	<u>4</u>	
Sustainability Elective ¹	<u>2 or </u> 3	
Electives	3	
Complete Writing Portfolio		
Third Year		
First Term	Hours	
BIOLOGY 420	3	
Diversity [DIVR]	3	
ENTOM 343 [M]	3	
HORT 310	3	
HORT 313	3	
HORT 320	3	
Electives	3	
Second Term	Hours	
ENTOM 351	3	
Environmental HORT Elective ²	3	
HORT 416 ³	3	
SOIL SCI 441	3	
Electives	6	
Third Term	Hours	
(Summer Session) HORT 399	1	

	Fourth Year		
	First Term	Hours	
	HORT 320 - <u>313</u>	3	
	HORT 418 [M]	3	
	Pest Management Elective ⁴³	<u>2 or </u> 3	
	PL P 300 or PL P 429	2 or 3	
	Sustainability Electives ¹	3 <u>5</u>	
	Second Term	Hours	
	Advanced Fruit or Vegetable Elective ⁵	3	
	HORT 416 ⁴	<u>3</u>	
	HORT 425 [M] [CAPS]	3	
	HORT/VIT ENOL 409 or CROP SCI/SOIL SCI 412	1	
	IPM 452	2	
	SOIL SCI 441	3	
	Electives	3 6	
		_	
	Footnotes		
	Soil SCI 101, 302, 480; or as approved by advisor.	01, 285, 469;	
	² Environmental Horticulture Elective courses <u>(3 credits)</u> : HORT <u>231, 232 330</u> , 331, 3 approved by advisor.	32, 357; or as	
	⁴³ Pest Management Elective courses (2-3 credits): CROP SCI 305; <u>IPM 452</u> , PL P 300 approved by advisor. Courses cannot be used to fulfill more than one major requirem		
	³⁴ CROP SCI 411 [M] can be taken in the fall as an alternative to HORT 416.		
	⁵ Advanced Fruit or Vegetable Elective courses <u>(3 credits)</u> : HORT 413 <u>, or 421 [M], 48 approved by advisor.</u>	<u>60,</u> or as	
Molecular Biosciences	Genetics and Cell Biology – Molecular Biology Option	(120	8-17
Revise graduation	Hours)	`	
requirements for Bachelor of Science in Genetics and Cell Biology – Molecular Biology Option	A grade of C or better is required in all MBIOS courses taken to n graduation requirements. None of these courses may be taken pass Completed core requirements may not be used to satisfy lecture or electives.	s/fail.	
	Third Year		
	First Term	Hours	
	Communication [COMM] or Written Communication [WRTG]	3	
	MBIOS 304	3	
	MBIOS 305	3	
	STAT 212 or 412	3 or 4	
	Electives	3	
	Second Term	Hours	

Option		
Microbiology – Molecular Biology	Completed core requirements may not be used to satisfy lecture or lab electives.	
Bachelor of Science in	graduation requirements. None of these courses may be taken pass/fail.	
requirements for	A grade of C or better is required in all MBIOS courses taken to meet	
Revise graduation	Microbiology – Molecular Biology Option (120 Hours)	0-1/
Molecular Biosciences	electives.	8-17
Microbiology – Medical Technology Option	Completed core requirements may not be used to satisfy lecture or lab	
Bachelor of Science in	graduation requirements. None of these courses may be taken pass/fail.	
requirements for	A grade of C or better is required in all MBIOS courses taken to meet	
Molecular Biosciences Revise graduation	Microbiology – Medical Technology Option (120 Hours)	8-17
No. 1 D	251, 315, 321, 353, 372 , 420 .	0.17
	450, 503. 4 Lab Elective: minimum of 3 credits selected from MBIOS 411, 430, 454, 498, 499; BIOLOGY	
	² CHEM 345 and 348 recommended for professional or graduate degrees. ³ Lecture elective: select one from BIOLOGY 420, 475, 476, 519; MBIOS 410, 413, 426, 440, 442,	
	¹ If required - consult advisor.	
	Footnotes	_
	Exit Survey	
	Electives 8	
	MBIOS 494 [M] [CAPS] 3	
	MBIOS 442 or BIOLOGY 476	
	MBIOS 402 [M] 3	
	Second Term Hours	
	Electives 3	
	MBIOS 478 3	
	MBIOS 423 3	
	MBIOS 404 3	
	Lab Elective ⁴ 3 or 4	
	First Term Hours	
	Fourth Year	
	Electives 4	
	MBIOS 401 3	
	Lecture Elective ³ 3	
	Diversity [DIVR] 3	