Contact: Dr. Mari Eggers, mari.eggers@montana.edu (406) 994-3064 or Dr. Seth Walk, seth.walk@montana.edu

Freshman Year Credits	
CHMY 141 – College Chemistry I (F)	4
WRIT101W - College Writing I (or test out of this requirement)	3
M151Q - Pre-calculus (F, S, Su) Or M161Q - Survey of Calculus ((F, S, Su) Or M171Q - Calculus I (F, S, Su)	4
CORE or Elective 4-5	
BIOB 160- Principals of Living Systems (F, S) or BIOB 260- Cellular and Molecular Biology (F, S)	4
CHMY 143- College Chemistry II (F, S, SU)	4
GPHY 284- Intro to GIS (F, S)	3
COMX111US Intro to Public Speaking Or US101US University Seminar	3
CORE or Elective	2-3
Year Total: 30-32	
Sophomore Year Credits	
BIOM210RN-Principals of Environmental Health Science (F)	3
CHMY 211- Organic Chemistry (F, S) Or CHMY 321- Organic Chemistry I (F, Su)	4-5
PHSX 205 – College Physics I (F, S, Su)	4
NRSM 240- Natural Resource Ecology (F) or NRSM 101- Natural Resource Conservation (F) or BIOE 370- Ecology (F, S) or BIOM 415- Microbial Diversity, Ecology, Evolution (S, even years) or SFBS 146 - Intro to Sustainable Food & Bioenergy Systems (S) or BIOM460 Infectious Diseases Ecology & Spillover (F, in senior year after BIOM360)	3
KIN 221- Health Anatomy and Physiology (F, Su) or BIOH 211 Anatomy & Physiology II (F, S) or BIOH 185 Integrated Physiology (F) or ANSC 265/266 Anatomy & Physiology of Domestic Animals (S)	3-4
HDFS 271- Statistical Measures of Well Being(S) or BIOB 318- Biometry (S) or STAT 216- Intro to Stats (F, S, Su)	3
One of: <u>CULA 105</u> – Food Safety & Sanitation (F)  or <u>BIOM 250</u> Microbiology for Health Sciences: Infectious Diseases (F, S)  or <u>BIOM460</u> Infectious Diseases Ecology & Spillover (F, in senior year after BIOM360, if not taken for Ecology requirement)	2-3
CORE and/or Electives	5-6
Year Total:	30-32
Junior Year Credits	

BIOM 360- General Microbiology (F, S)		5
MBEH 498- Environmental Health Internship	(F, S, Su)	3
<u>CORE</u> and/or <u>Electives</u>		2
EENV 387- Environmental Law and Policy (S)		3
CORE and/or Electives		8
Year Total:		30
Senior Year	Credits	
BIOM 494 Seminar (Environmental Health Ma	anagement/Capstone)	1
CHTH 440 Principals of Epidemiology (F)		3
ENSC 407- Environmental Risk Assessment (F	F <mark>, alternate years</mark> )	3
CORE and/or Electives		9
BIOM 494 Seminar (Capstone) Or MBEH 490R Research (Capstone)		1-3
BIOM 425- Toxicology (S)		3
CORE and/or Electives		9-11
Year Total:		30
Teal Total.		
Total Program Credits:		120
Total Program Credits:	nimum of 120 credits is required for graduation, with ≥42 course credits at 300 leve	
Total Program Credits:  Electives (12 cr. or more from this list. A min	nimum of 120 credits is required for graduation, with ≥42 course credits at 300 level.  Food Safety & Sanitation (F)  Microbiology for Health Sciences: Infectious Diseases (F, S)  Infectious Diseases Ecology and Spillover (F) (whichever courses were not the second se	l or above)
Total Program Credits:  Electives (12 cr. or more from this list. A mine Recommended electives  CULA 105 – and/or BIOM 250	Food Safety & Sanitation (F) Microbiology for Health Sciences: Infectious Diseases (F, S)	l or above)
Total Program Credits:  Electives (12 cr. or more from this list. A mine Recommended electives  CULA 105 — and/or BIOM 250 and/or BIOM 460	Food Safety & Sanitation (F) Microbiology for Health Sciences: Infectious Diseases (F, S) Infectious Diseases Ecology and Spillover (F) (whichever courses were not t	2-3 caken above)
Total Program Credits:  Electives (12 cr. or more from this list. A mine Recommended electives  CULA 105 — and/or BIOM 250 and/or BIOM 460  MBEH 2XX (in planning stage)	Food Safety & Sanitation (F) Microbiology for Health Sciences: Infectious Diseases (F, S) Infectious Diseases Ecology and Spillover (F) (whichever courses were not the HAZWOPER (Hazardous Waste Operations & Emergency Response)	2-3 caken above)
Total Program Credits:  Electives (12 cr. or more from this list. A mine Recommended electives  CULA 105 — and/or BIOM 250 and/or BIOM 460  MBEH 2XX (in planning stage)  BIOM 419	Food Safety & Sanitation (F) Microbiology for Health Sciences: Infectious Diseases (F, S) Infectious Diseases Ecology and Spillover (F) (whichever courses were not t HAZWOPER (Hazardous Waste Operations & Emergency Response)  Programming for Biologists	2-3 eaken above) 2 1-3
Total Program Credits:  Electives (12 cr. or more from this list. A mine Recommended electives  CULA 105 — and/or BIOM 250 and/or BIOM 460  MBEH 2XX (in planning stage)  BIOM 419  BIOM 430	Food Safety & Sanitation (F) Microbiology for Health Sciences: Infectious Diseases (F, S) Infectious Diseases Ecology and Spillover (F) (whichever courses were not t HAZWOPER (Hazardous Waste Operations & Emergency Response)  Programming for Biologists Applied and Environmental Microbiology	2-3 eaken above) 2 1-3
Total Program Credits:  Electives (12 cr. or more from this list. A mine Recommended electives  CULA 105 — and/or BIOM 250 and/or BIOM 460  MBEH 2XX (in planning stage)  BIOM 419  BIOM 430  LS 104	Food Safety & Sanitation (F) Microbiology for Health Sciences: Infectious Diseases (F, S) Infectious Diseases Ecology and Spillover (F) (whichever courses were not t HAZWOPER (Hazardous Waste Operations & Emergency Response)  Programming for Biologists  Applied and Environmental Microbiology Introduction to Global Health (F)	2-3 eaken above) 2 1-3 4 3
Total Program Credits:  Electives (12 cr. or more from this list. A mine Recommended electives  CULA 105 — and/or BIOM 250 and/or BIOM 460  MBEH 2XX (in planning stage)  BIOM 419  BIOM 430  LS 104  ENSC 272	Food Safety & Sanitation (F) Microbiology for Health Sciences: Infectious Diseases (F, S) Infectious Diseases Ecology and Spillover (F) (whichever courses were not t HAZWOPER (Hazardous Waste Operations & Emergency Response)  Programming for Biologists  Applied and Environmental Microbiology Introduction to Global Health (F)  Water Resources (F)	2-3 eaken above)  2 1-3  4 3 3
Total Program Credits:  Electives (12 cr. or more from this list. A mine Recommended electives  CULA 105 — and/or BIOM 250 and/or BIOM 460  MBEH 2XX (in planning stage)  BIOM 419  BIOM 430  LS 104  ENSC 272  ENSC 245	Food Safety & Sanitation (F) Microbiology for Health Sciences: Infectious Diseases (F, S) Infectious Diseases Ecology and Spillover (F) (whichever courses were not t HAZWOPER (Hazardous Waste Operations & Emergency Response)  Programming for Biologists  Applied and Environmental Microbiology Introduction to Global Health (F)  Water Resources (F)  Soils (F)	2-3 eaken above)  2 1-3  4 3 3 3
Total Program Credits:  Electives (12 cr. or more from this list. A mine Recommended electives  CULA 105 — and/or BIOM 250 and/or BIOM 460  MBEH 2XX (in planning stage)  BIOM 419  BIOM 430  LS 104  ENSC 272  ENSC 245  ARCH 231  WRIT 221	Food Safety & Sanitation (F) Microbiology for Health Sciences: Infectious Diseases (F, S) Infectious Diseases Ecology and Spillover (F) (whichever courses were not t HAZWOPER (Hazardous Waste Operations & Emergency Response)  Programming for Biologists  Applied and Environmental Microbiology Introduction to Global Health (F)  Water Resources (F)  Soils (F) Issues in Sustainability Intermediate Tech Writing (F, S)	2-3 eaken above)  2 1-3  4 3 3 3 3
Total Program Credits:  Electives (12 cr. or more from this list. A mine Recommended electives  CULA 105 — and/or BIOM 250 and/or BIOM 460  MBEH 2XX (in planning stage)  BIOM 419  BIOM 430  LS 104  ENSC 272  ENSC 245  ARCH 231  WRIT 221 or WRIT 326	Food Safety & Sanitation (F) Microbiology for Health Sciences: Infectious Diseases (F, S) Infectious Diseases Ecology and Spillover (F) (whichever courses were not to the HAZWOPER (Hazardous Waste Operations & Emergency Response)  Programming for Biologists  Applied and Environmental Microbiology Introduction to Global Health (F)  Water Resources (F)  Soils (F)  Issues in Sustainability  Intermediate Tech Writing (F, S) Advanced Writing (F)	2-3 eaken above)  2 1-3  4 3 3 3 3
Total Program Credits:  Electives (12 cr. or more from this list. A mine Recommended electives  CULA 105 — and/or BIOM 250 and/or BIOM 460  MBEH 2XX (in planning stage)  BIOM 419  BIOM 430  LS 104  ENSC 272  ENSC 245  ARCH 231  WRIT 221 or WRIT 326  STAT 2170	Food Safety & Sanitation (F) Microbiology for Health Sciences: Infectious Diseases (F, S) Infectious Diseases Ecology and Spillover (F) (whichever courses were not to HAZWOPER (Hazardous Waste Operations & Emergency Response)  Programming for Biologists  Applied and Environmental Microbiology Introduction to Global Health (F)  Water Resources (F)  Soils (F)  Issues in Sustainability  Intermediate Tech Writing (F, S) Advanced Writing (F)  Intermediate Statistical Concepts	2-3 raken above)  2 1-3  4 3 3 3 3 3

MBEH 475	Field Project in Environmental Health	1-4
MBEH 490R	Undergraduate Research	1-6
MBEH 492	Independent Study	1-3
MBEH 4XX	Water and Wastewater Microbiology (planned)	3
MBEH 4XX	Occupational Health and Safety (planned)	3
Electives: Other (cont'd.). Alternat	te courses possible with advisor approval.	
AGSC 465R	Health, Agriculture and Poverty (F,S)	4
BCH 380	Biochemistry	5
BIOE 375	Ecological Responses to Climate Change (S)	3
BIOH201	Human Anatomy & Physiology I (F)	5
BIOH 303	Global Diseases and Health Disparities (S)	3
BIOM 400	Medical Microbiology (S)	3
BIOB 410	Immunology	3
BIOM 405	Host Associated Microbiomes	3
BIOM 410	Microbial Genetics	3
BIOM 435	Virology	3
BIOM 450	Microbial Physiology	3
BIOM 452	Soil and Environmental Microbiology (S)	3
BIOO 262 IN	Intro to Entomology	3
BMGT 335	Management & Organization (S)	3
<u>CHEM323</u>	Organic Chemistry II	4
<u>CHTH 317</u>	Health Behavior Theories	3
<u>CHTH 428</u>	Health Disparities	3
ENSC 353	Environmental Biogeochemistry	3
ENSC 444	Watershed Hydrology (F)	3
ENSC 460	Soil Remediation (S)	3
ENSC 461	Restoration Ecology	3
ERTH 101N	Earth System Sciences (no longer required by Accreditation)	4
GPHY 357	GPS Fund/App Mapping (F)	3
GPHY 384	Advanced GIS and Spatial Analysis (F/S)	3
<u>GPHY 402</u>	Water & Society	3
M161 or M171	Calculus counts as elective if M151 taken at MSU	3
NASX 310 or NASX 450	Native Cultures in North America History of American Indians	3
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NASX 415	Native Food Systems	3
NASX 476	American Indian Policy and Law	3
NRSM 430	Natural Resource Law	3
NUTR 221	Basic Human Nutrition (F, S, Su)	3
NUTR 226	Food Fundamentals (S)	3
NUTR 227	Food Fundamentals Lab (F,S)	2
NUTR 322	Food Service System Management (F)	3
PHSX 207	College Physics II	4
<u>SFBS346</u>	Sustainable Foods & Bioenergy Systems Summer Field Course (Su)	1
<u>SFBS 451R</u>	Sustainable Food Systems (S)	3
<u>STAT 217Q</u>	Intermediate Statistical Concepts	3
STAT 411	Methods for Data Analysis I	3
<u>STAT 412</u>	Methods for Data Analysis II	3
Suggested Elective Groups Communicable Disease Management  BIOM 250 BIOM 460 BIOM 400 BIOM 400 BIOM 435	Microbiology for Health Sciences: Infectious Diseases (F, S) (if not taken above) Infectious Diseases Ecology and Spillover (F) (if not taken above) Immunology Medical Microbiology (S) Virology	3 3 3 3 3
Pre-medicine  BCH 380 PHSX 207 CHEM323	Biochemistry College Physics II Organic Chemistry II	5 4 4
Water & Wastewater Management (4 of these courses)  ENSC 245 ENSC 272 BIOM 452 ENSC 353 ENSC 444 GPHY 384 MBEH 4XX Plus: MBEH498	Soils (F) Water Resources (F) Soil & Environmental Microbiology Environmental Biogeochemistry Watershed Hydrology (F) Advanced GIS and Spatial Analysis (F/S) Water and Wastewater Microbiology (planned) Required internship focused on water and/or wastewater	3 3 3 3 3 3 3
NOTE: Students can earn the Water Resources Minor wit  Food Safety, Systems & Management (12 credits from the	h just an additional 3 courses. See <a href="http://www.montana.edu/water-resources-minor/">http://www.montana.edu/water-resources-minor/</a> .	
CULA 105 – or BIOM 250 NUTR 221 NUTR 226 NUTR 227 NUTR 322 CHTH 317	Food Safety & Sanitation (F) Microbiology for Health Sciences: Infectious Diseases (F, S) (if not taken above) Basic Human Nutrition (F, S, Su) Food Fundamentals (S) Food Fundamentals Lab (F,S) Food Service System Management (F) Health Behavior Theories	2-3 3 3 2 3 3

NASX 415 SFBS146 SFBS 451R	Native Food Systems Intro to Sustainable Foods & Bioenergy Systems (S) Sustainable Food Systems (S)	3 3 3
Occupational Health and Safety		
MBEH 4XX MBEH 3XX BMGT 335 CHTH 317	Occupational Health and Safety (planned) HAZWOPER (Hazardous Waste Operations & Emergency Response) (TBD) Management and Organization (F, S, Su) Health Behavior Theories	3 2 3 3
<u>Epidemiology</u>		
STAT 217Q STAT 411 STAT 412	Intermediate Statistical Concepts Methods for Data Analysis I Methods for Data Analysis II	3 3 3
Toxicology  BIOB 410 BCH 380 BIOH 201	Immunology Biochemistry Human Anatomy & Physiology I (F)	3 5 5
Global Environmental Health (12 credits from this list):		
LS 191 BIOH 303 BIOE 375 AGSC 465R GPHY 402 Language class NOTE: Students can earn the Global Health minor with ju	Introduction to Global Health (F) Global Diseases and Health Disparities (S) Ecological Responses to Climate Change (S) Health, Agriculture and Poverty (F,S) Water & Society  ast an additional 9 credits. See	