Environmental Science & Terrestrial Resource Management (ESRM) and Bioresource Science and Engineering (BSE) Majors

New Major Information for all incoming SEFS Transfer Student majors

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SCHOOL OF ENVIRONMENTAL AND FOREST SCIENCES
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Who is this presentation for?

- All Incoming BSE and ESRM Major Transfer Students

- Note (for the PDF version of this on our web site): there are other versions of this presentation available for other groups of incoming students

Agenda

- Basic SEFS Functioning: what you need to know immediately – Advising, Communication, website, etc.
- BSE First Quarter Registration
- ESRM First Quarter Registration
- In Case You Missed It: sending records of your College level credits
- Matching your environmental interests with a career
- FAQ about ESRM Major vs its 4 Degree Options
- Final Questions and Slide Posting

- 1-on-1 advising, class schedule registration - once that's completed then you can leave

A copy of these presentation slides is available at https://sefs.uw.edu/students/undergraduate/academic-planning-resources/

Basic SEFS functioning: Undergrad Advising, Major Communication Tools, SEFS Blog, SEFS Web Site, Student Organizations

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SEFS Undergraduate Advising and Advisors

- Undergraduate advising appointment scheduling, hours, contact information to reach advising:
  - https://sefs.uw.edu/students/undergraduate/undergraduate-advising/
- Caseload of students: 600 for Aut (estimate)
- Advisors are currently Sandra Maddox and Natasha Lavides
- Sefsadv@uw.edu for most emails
- Note emails for contacting advising vs sending VA forms!
- Online appointment scheduling – all can schedule an appointment without asking permission!

SEFS Email and Student Blog and Student Clubs

- **Communication from SEFS to its Undergraduate Students**
  - **Email lists – you will be subscribed to SEFS email lists and will be sent information relating to academic advising, SEFS events, career & internship opportunities, and connection opportunities with other SEFS and UW students**
    - **We try to limit what goes out over email**
  - **Student Blog:** https://sefs.uw.edu/students/student-blog/
    - **Find this by going to sefs.uw.edu and hovering on the Students tab**
    - **This is where all other useful information is available**
  - **Student Organizations:** https://sefs.uw.edu/students/student-organizations/. Generally not active in Summer.

SEFS Web Site Content

- **Undergraduate advising scheduling, hours, contact information to reach advising:** https://sefs.uw.edu/students/undergraduate/undergraduate-advising/

- **Academic Requirements:** https://sefs.uw.edu/students/undergraduate/bse-major/bse-requirements/

  https://sefs.uw.edu/students/undergraduate/esrm/esrm-major-requirements/

SEFS Web Site Content

- **Academic Planning Resources:** https://sefs.uw.edu/students/undergraduate/academic-planning-resources/
  Annual Course Schedules, Academic Requirements, Sample 4-Year Plan sheets, Advising Presentations

- **NOTE: Annual schedule is only available here on the Website, it cannot be deduced by using MyPlan**

BSE Majors: Registering for First Quarter as a Transfer Student

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First, Some Registration Context: BSE Transfer 4-Year Plan

	Autumn Quarter	Cr	Winter Quarter	Cr	Spring Quarter	Cr
First Year	◆ MATH 124 – Calculus with Analytical Geometry I	5	◆MATH 125 – Calculus with Analytical Geometry II	5	◆MATH 126 – Calculus with Analytical Geometry III	5
	◆ CHEM 142 – General Chemistry	5	◆ CHEM 152 – General Chemistry	5	◆ CHEM 162 – General Chemistry	5
	◆ English Composition	5	Any SSc + DIV cr	5		
					◆PHYS 121 - Mechanics	5
	Qtr. Total:	15	Qtr. Total:	15	Qtr. Total:	15
	Autumn Quarter	**Cr**	**Winter Quarter**	**Cr**	**Spring Quarter**	**Cr**
Second Year	◆PHYS 122 – Electromagnetism	5	◆PHYS 123 – Waves	5	♦AA 260 – Thermodynamics [Must take before Autumn of Junior year (also in Summer)]	4
	♦CHEM 237 – Organic Chemistry	4	♦CHEM 238 – Organic Chemistry	4	ENGR 231 – Introduction to Technical Communication	3
	♦MATH 207 Differential Eq	3	♦MATH 208 – Linear Algebra	3	ECON 200 - Microeconomics	5
	Any A & H	5	Any SSc Credit	5	[If at UW, take BSE 248 too]	
	Qtr. Total:	17	Qtr. Total:	17	Qtr. Total:	12
	Autumn Quarter	**Cr**	**Winter Quarter**	**Cr**	**Spring Quarter**	**Cr**
Third Year	BSE 391 – Engr Principles Biorefineries	5	BSE 392 – Bioresource Transport	5	BSE 421 – Bioresource Sci/Eng 2	4
			BSE 420 – Bioresource Sci/Eng 1	4	BSE 426- Bioresource Lab	4
	BSE 406 – Natural Products Chemistry	5	BSE 410 – Industrial Wastewater Treatment	4	BSE 248 - Paper Properties	4
	BSE 210 – Bioproduct Sustain.	4	Engineering Elective	4		
					Q SCI 381: Statistics	5
	Qtr. Total:	14	Qtr. Total:	17	Qtr. Total:	17
	Autumn Quarter	**Cr**	**Winter Quarter**	**Cr**	**Spring Quarter**	**Cr**
Fourth Year	BSE 422 – Bioresource Sci/Eng 3	4	BSE 436 - Papermaking Lab II	4	BSE 481 – Bioresource Design II	5
	BSE 430 – Papermaking Process	5	BSE 480 – Bioresource Design	4	Any SSc Credit	5
	BSE 497 - Internship	1	Engineering Elective	4	Engineering Elective	4
	Any A&H	5	Engineering Elective	4		
	Qtr. Total:	15	Qtr. Total:	16	Qtr. Total:	14

- BSE-Prefixed courses are only available in the quarter indicated. Classes should be taken in the year indicated.
- Complete Free Electives if needed to reach 180 credits for the BSE degree.

BSE Course Priorities

- All BSE-Prefixed courses are offered once/year in the quarter indicated on the 4-year plan
- There were Sophomore BSE-Prefixed courses that you will take in Junior year
- Squeezing in ANY missing Science or Math scheduled for Freshman or Sophomore year is tricky at best for a number of key reasons; please speak to either Sandra or Natasha about prioritizing your missing science/math from the first two years of the 4-year plan
- ENGR 231 is no longer offered by the UW and the BSE degree requirement for this will be modified: stay tuned.

Autumn Courses to Register for – select 15-ish credits from the candidates below

- BSE 391, 406, 210 – 14 credits

Environmental Sciences and Terrestrial Resource Management (ESRM): Registering for First Quarter as a Transfer Student

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First, Some Registration Context: ESRM Sample 4-year plan for Junior Transfer Students

	Autumn Quarter	Cr	Winter Quarter	Cr	Spring Quarter	Cr
First Year	CHEM 120/142	5	CHEM 220/CHEM 152	5	COM Requirements (Meets A&H)	5
	English Composition (C) course	5	Q SCI 292/MATH 125	5	Any NSc outside of Major	5
	Q SCI 291 / MATH 124	5	Any A&H	5	Any SSc outside Major	5
	Qtr. Total:	**15**	**Qtr. Total:**	**15**	**Qtr. Total:**	**15**
	Autumn Quarter	**Cr**	**Winter Quarter**	**Cr**	**Spring Quarter**	**Cr**
Second Year	BIOL 180**	5	BIOL 200**	5	BIOL 220**	5
	Any SSC Outside of major	5	Economics Requirement	5	DIV course	5
	W Course or Additional Composition	5	Any NSc outside of major	5	W Course or Additional Composition	5
	Qtr. Total:	**15**	**Qtr. Total:**	**15**	**Qtr. Total:**	**15**
	Autumn Quarter	**Cr**	**Winter Quarter**	**Cr**	**Spring Quarter ****	**Cr**
Third Year	ESRM 201	5	ESRM 200	5	ESRM 304	5
	QSCI 381/STAT 311	5	ESRM 300	2	ESRM 250	5
	ESRM 210 or other Earth Science	5	ESRM Elective	5	ESRM Elective	5
	Qtr. Total:	**15**	**Qtr. Total:**	**12**	**Qtr. Total:**	**15**
	Autumn Quarter	**Cr**	**Winter Quarter**	**Cr**	**Spring Quarter ****	**Cr**
Fourth Year	ESRM Elective	5	ESRM Elective	5	ESRM Elective	5
	ESRM Elective	5	ESRM Elective	5	ESRM Elective	5
	ESRM Elective	5				
	Qtr. Total:	**15**	**Qtr. Total:**	**10**	**Qtr. Total:**	**10**

- ESRM Elective courses are offered once a year. **Always check the Annual Course Schedule on the SEFS web site for current year scheduling information** if you are interested in specific course offerings

Second, here are the course priorities we hope you complete rapidly, before you explore other courses in the ESRM major

ESRM Math and Sciences Fundamentals (35-40 Cr)	
QSCI 291 (5 cr.) Calculus for Biologists I, Offered Autumn and Winter. (or MATH 124)	☐
QSCI 292 (5 cr) Calculus for Biologists II, offered Winter and Spring. (or MATH 125)	☐
QSCI 381 (5 cr) Introduction to Probability and Statistics (or STAT 311)	☐
CHEM 120 (5 cr) Principles of Chemistry I, offered Autumn and Summer. (or CHEM 142)	☐
CHEM 220 (5 cr) Principles of Chemistry II, offered Winter. (or CHEM 152)	☐
BIOL 180 (5 cr) Introductory Biology **	☐
BIOL 200 (5 cr) Introductory Biology**	☐
BIOL 220 (5 cr) Introductory Biology **	☐

ESRM Core Courses (22 cr)	
ESRM 200 (5cr): Society and Sustainable Environments	☐
ESRM 201 (5 cr): Sustaining Pacific Northwest Ecosystems	☐
ESRM 250 (5 cr) Introduction to Geographical Information Systems in Forest Resources	☐
ESRM 300 (2 Cr): Principles of Sustainability	☐
ESRM 304 (5 cr): Environmental and Resource Assessment	☐

Notes about course planning for your first quarter in the ESRM major

- **ESSENTIAL:** Complete your CHEM requirement BEFORE you register for Biology 180.
- If you did not complete all three General Biology courses at the same community college , it is likely you do not have credit for either BIOL 180, BIOL 200, or BIOL 220. If this is the case, you may want to consider finishing BIOL up at the same CC.
  - If you took AP Biology but did not score high enough to receive credit for both BIOL 161 and BIOL 162, you will need to complete BIOL 180, 200, and 220 instead.
- Have all your FINAL transfer transcripts arrived?

Autumn Courses to Register for – select 15-ish credits from the candidates below and on next slide

- Missing Math and Science classes – Calculus, CHEM, or BIOL
  - Those who want to take QSCI 292 instead of MATH 125 will need to wait until Winter quarter, as it's only offered Winter and Spring
  - Students needing CHEM and who want to do the CHEM 120/220 series MUST take CHEM 120 in AUTUMN, as that's the only quarter offered [220 is only Winter quarter]
- ESRM Core Classes: (1) ESRM 201, or (2) ESRM 200, or (3)ESRM 250. ESRM 300 (2 credits) is Winter quarter only [304 requires 200 or 201]

Registration alternatives - 2

- Other ESRM degree requirements – run your Degree Audit in MyPlan to see what you need!

Course Substitution Petitions for ESRM degree requirements only [read petition form carefully]

Another Key section of SEFS website

- **Student Forms section under Undergraduate Programs**
- **https://sefs.uw.edu/students/undergraduate/for-students/**

- Sandra or Natasha will discuss with you if you have some transfer classes that could be petitioned to count for ESRM graduation requirements, and will also make sure you've received all general education credits available for your transfer courses too.

ESRM Placement Tests to Take and Scores to Save: If applicable

- Take the Chemistry Placement test in order to enroll in CHEM 120 or CHEM 142 (or CHEM 110 if you need more Chemistry preparation): https://chem.washington.edu/placement
- Take the MATH Placement Test if you need to take Pre-Calculus (MATH 120) or want to get started with your first Calculus course requirement (either Q SCI 291 or MATH 124) and you completed Pre-Calculus in High School: https://sites.math.washington.edu/~gsp/.
  - IMPORTANT NOTE: save a screenshot of your results as you may need it to register for Q SCI 291

In Case You Missed it: sending records of your College-level credits

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Your College Credits

We cannot advise you correctly if you have missing college credits that should be on your UW student record

- **How can I tell if the UW has all my credits?**
  - **Check the top of your Unofficial UW Transcript - https://sdb.admin.uw.edu/students/uwnetid/unofficial.asp. Make sure all transfer/running start college credits are listed and all credits earned from AP/IB/or A or AS level are also listed**
- **Anything missing? Be sure to have a copy of your unofficial transcript/test scores on hand for your advisor meeting.**

Missing Test Scores: How to send your scores and what UW credits you will receive.

- Answers for AP Scores: https://admit.washington.edu/apply/transfer/exams-for-credit/ap/
- Answers for IB scores: https://admit.washington.edu/apply/transfer/exams-for-credit/ib/
- Answers for A and AS level scores: https://admit.washington.edu/apply/transfer/exams-for-credit/a-as-level/

How Do I Send My Final College/University Transcripts and UW credits you will receive?

- **Sending final College/University transcripts:** https://admit.washington.edu/apply/transfer/how-to-apply/transcripts/
  - **UW course equivalencies for courses complete at a WA Community College are listed at** https://admit.washington.edu/apply/transfer/equivalency-guide/

Matching your Environmental Interests With a Career

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Matching Your Environmental Interest With a Career

- **SEFS Undergraduate Web Site Sections on Choosing Environmentally-related employment pathways, Internships and Permanent employment**

  https://sefs.uw.edu/students/undergraduate/

- More content for these sections will be developed this Summer (including the Choosing Environmentally-related employment pathways)

FAQ about the ESRM Major and ESRM Degree Options

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FAQ about ESRM Major and Degree Options

- ESRM is one of the two Bachelor's degree programs in the School of Environmental and Forest Sciences (SEFS)
- Students complete the general ESRM degree [incoming ESRM majors are in this program] or one of four ESRM degree Options:
  - ESRM degree: Option in Natural Resources and Environmental Management (NREM)
  - ESRM degree: Option in Restoration Ecology and Environmental Horticulture (REEH)
  - ESRM degree: Option in Sustainable Forest Management (SFM)
  - ESRM degree: Option in Wildlife Conservation (WC)
- All students earn a Bachelor of Science, Environmental Science and Terrestrial Resource Management
- Degree Options are only listed on a student's transcript
- More at https://sefs.uw.edu/students/undergraduate/esrm/

FAQ about the ESRM Major and Options - 2

- The only difference between the major and the options are the final 45 credits of the degree.
  - ESRM: General (the Major) students can choose flexible ESRM or outside elective classes at the 300 and 400 levels – this is what you are in now
    - This allows students to customize a program of study to meet their interests
    - The vast majority of students chose this pathway to complete their degree
    - If you want to switch to one of the 4 Options, please wait a quarter or two before contacting an ESRM advisor. There is no rush!
  - All of the other four options have a fixed set of ESRM 300-400 level courses to complete for the final 45 credits.
- NOTE: There is no difference in future employability between the Major (AKA ESRM: General) and the Options.

Final Questions and Slide Posting

- Many of your questions will be answered during your Orientation session or can be answered if you ask. Please ask your First Year Programs staff assistance also.
- These slides are posted at https://sefs.uw.edu/students/undergraduate/academic-planning-resources/
- We look forward to working with you during your time in our majors!