

New Student Advising Session– for First-Year Pre-BSE UW Students preparing to enter the Bioresource Science and Engineering major

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New Major Information and
Welcome for All Interested Students
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ESRM and BSE Majors, and Pre-BSE Students

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Who is this presentation for?

- > All Incoming students coded as Pre-BSE (Pre-Bioresource Science and Engineering) who want to become Bioresource Science and Engineering majors.
- > Any other incoming/current UW student who is interested in becoming a Bioresource Science and Engineering major or wants to learn more about the major.



Agenda

- > About the BSE Major
- > Pre-BSE students: About Autumn Quarter Registration, and future quarters
- > In Case You Missed It: sending records of your College level credits
- > Admission to the BSE Major
- > Pre-BSE communication tools: Blog, Emails, Web site
- > Some Frequently Asked Questions (FAQ) about the BSE major
- > Final Questions and Slide Posting

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



About the BSE Major

- > Bioresource Science and Engineering students apply chemical sciences and engineering to manufacturing sustainable products and developing sustainable processes, fuels, and chemicals from biomass resources.
- > This major provides training in chemical and physical sciences and chemical engineering as applied to manufacturing products, fuels and chemicals from biomass resources. It emphasizes the application of mathematics, chemistry and engineering to paper and bioresources-based industries. The BSE program focuses on the development of process engineers who optimize the manufacture of value-added products from sustainable natural resources.
- > More information at <https://sefs.uw.edu/students/undergraduate/bse-major/>



Pre-Bioresource Science and Engineering (Pre-BSE) : Registering for Autumn Quarter



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First, some Registration Context: BSE Sample 4-Year Plan

	Autumn Quarter	Cr	Winter Quarter	Cr	Spring Quarter	Cr
Freshman	◆❖ 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		
	ENGR 101 (ENGRUD only) and or GEN ST 199 (FIG)	1-2			◆❖ PHYS 121 - Mechanics	5
	Qtr. Total:	15-17	Qtr. Total:	15	Qtr. Total:	15
Sophomore	Autumn Quarter	Cr	Winter Quarter	Cr	Spring Quarter	Cr
	◆ 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	BSE 248 - Paper Properties	4
	◆MATH 207 Differential Eq	3	◆MATH 208 – Linear Algebra	3	ECON 200 - Microeconomics	5
	BSE 210 – Bioproduct Sustain.	4	Any SSc Credit	5		
	Qtr. Total:	15	Qtr. Total:	17	Qtr. Total:	13
Junior	Autumn Quarter	Cr	Winter Quarter	Cr	Spring Quarter	Cr
	BSE 391 – Engr Principles Biorefineries	5	BSE 392 – Bioresource Transport	5	BSE 421 – Bioresource Sci/Eng 2	4
	ENGR 231 – Introduction to Technical Communication	3	BSE 420 – Bioresource Sci/Eng 1	4	BSE 426- Bioresource Lab	4
	BSE 406 – Natural Products Chemistry	5	BSE 410 – Industrial Wastewater Treatment	4	Engineering Elective	4
	[If Jr. Transfer, take BSE 210]		Engineering Elective	4	[If Jr. Transfer, take BSE 248]	
					Q SCI 381: Statistics	5
	Qtr. Total:	13	Qtr. Total:	17	Qtr. Total:	17
Senior	Autumn Quarter	Cr	Winter Quarter	Cr	Spring Quarter	Cr
	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	Any A&H	5	Engineering Elective	4
	Any A&H	5				
	Qtr. Total:	15	Qtr. Total:	13	Qtr. Total:	14

List of Required Courses and Sample 4-Year Plans and advising presentations are available on the SEFS web site

Autumn Courses to Register for to Prepare for BSE (Alternatives to follow)

- > In order to start strong in your major, please register for the following Autumn courses:
 - Calculus (MATH 124) (5 Credit)
 - > Take MATH 120: Precalculus ONLY if you did not complete Pre-Calculus in High School or do not place into calculus via the math self-placement test.
 - CHEM 142: General Chemistry (5 credits)
 - > First of 3 quarters of General Chemistry.
 - > If the CHEM placement test indicates this, please take CHEM 110 Preparation for General Chemistry, if needed, to prepare for 142
 - English Composition (5 credits)
 - Registering for a FIG is also an excellent idea if
you can fit it in. There are FIGs that include the above courses,
as well as stand-alone FIGs.



Placement Tests to Take

- > Take the Chemistry Placement test in order to enroll in CHEM 142 (or 143 or 145) (it's also required to register for CHEM 110 if you need more Chemistry preparation before starting 142): <https://chem.washington.edu/placement>
- > Take the MATH Placement Test if you need to take MATH 124 (or MATH 134), or MATH 120 (Pre-Calculus): <https://sites.math.washington.edu/~gsp/>.



Pre-BSE Autumn Registration Alternatives and Alerts

- > If you received credit for one or more Calculus classes while in High School, you should generally register for the next Calculus class in the course sequence (for example, if you have MATH 124 credit, register for MATH 125)
- > If you received credit for one or more CHEM courses while in High School, you should generally register for the next CHEM course in the course sequence (for example, if you have CHEM 142 credit, register for CHEM 152)
- > **More back-up courses:** Consult the BSE Planning Sheet at <https://sefs.uw.edu/students/undergraduate/academic-planning-resources/> for additional classes to consider enrolling in. Note especially the General Education Requirements section courses – any course here would be a good balance to your Math and Science courses.



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/>



Admission to the BSE Major



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How Admission works

- > <https://sefs.uw.edu/students/undergraduate/prepare-and-apply/> is where the instructions are, such as which classes must be completed before you apply
- > If you follow the sample 4-year plan for BSE at <https://sefs.uw.edu/students/undergraduate/academic-planning-resources/> you will complete all the admission and enrollment requirements plus all the other courses normally completed in your first two years of study
- > Admissions is for Spring quarter of Sophomore year or Autumn of Junior year
 - Application deadlines are January 15 for Spring and April 5 for Autumn



Admissions FAQ

- > **How competitive is admission for BSE?**
 - BSE has plenty of room to admit all qualified applicants! If you have a 2.5+ GPA, and a 2.0 in each admission requirement course, please plan on applying
- > **Are there any BSE student groups I can join?**
 - Yes! Please join TAPPI - <https://linktr.ee/uwtappi>
 - TAPPI is a student branch of a national association. At UW, TAPPI hosts information sessions for internships and careers, Resume café, UW engineering alumni panels, fiber engineering events for fundraising, field trips, and bonding events. TAPPI caters to all engineering majors, especially Bioresource Science and Engineering, Materials Science and Engineering, Chemical Engineering, and Environmental Engineering. They are always looking for new members and eager participants! No need to be in a major yet to join.



BSE Major Communication Tools: SEFS BLOG, BSE and Pre-BSE Emails, SEFS Web Site



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SEFS Email and Student Blog

> Communication from SEFS to its Undergraduate Students

- Email lists – you will be subscribed to the Pre-BSE email list and will be sent periodic information you may find relevant, such as academic, social event, and internship information. Additional information will be sent to you once you become a major.
- Student Blog: <https://sefs.uw.edu/students/student-blog/>
 - > This is where all other useful information is available
 - > Has both undergraduate and graduate student postings, so be sure to filter to “Undergraduates”



SEFS Web Site Content

- > Undergraduate advising scheduling, hours, contact information to reach advising:
<https://sefs.uw.edu/students/undergraduate/undergraduate-advising/>
- > BSE Academic Requirements:
<https://sefs.uw.edu/students/undergraduate/bse-major/bse-requirements/>
- > BSE major planning tools:
<https://sefs.uw.edu/students/undergraduate/academic-planning-resources/>



Matching your interests with a major and a career



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Matching Your Interest With a Major and Career

- > How do I match up my interests with possible careers and majors?
- > Pathway U is here to help! <https://uw.pathwayu.com/>
- [One of many UW Career Center resources] - <https://careers.uw.edu/>



Pathways U - My Journey

My Journey

The path toward joy, meaning and purpose

SELF-DISCOVERY

Discover more about yourself

Complete PathwayU's 4 assessments to start uncovering your unique path to purpose.

TAKE ASSESSMENTS

SELF-DISCOVERY

Explore your career matches

Once you've taken the assessments, check out how good a fit you are with different careers.

UNCOVER CAREERS THAT FIT

MY CAREER

Research careers of interest

Watch short videos or peruse guides to learn more about the career fields that interest you.

DIG DEEPER INTO CAREERS

MY CAREER

Test drive skills needed for jobs

Before committing to a major or career, take micro-courses on LinkedIn Learning to see if you understand and enjoy relevant tasks.

LINKEDIN LEARNING

MY SCHOOL

Prepare to pursue your interests

Alumni profiles, videos, guidebooks, blog posts, sample job titles, in-demand skill lists, and even related job and internship postings...for 8 career interest areas.

MY SCHOOL

Find internships & jobs available to UW Huskies in Handshake

Handshake is loaded with thousands of internships and jobs available to Huskies!

SEARCH FOR INTERNSHIPS & JOBS

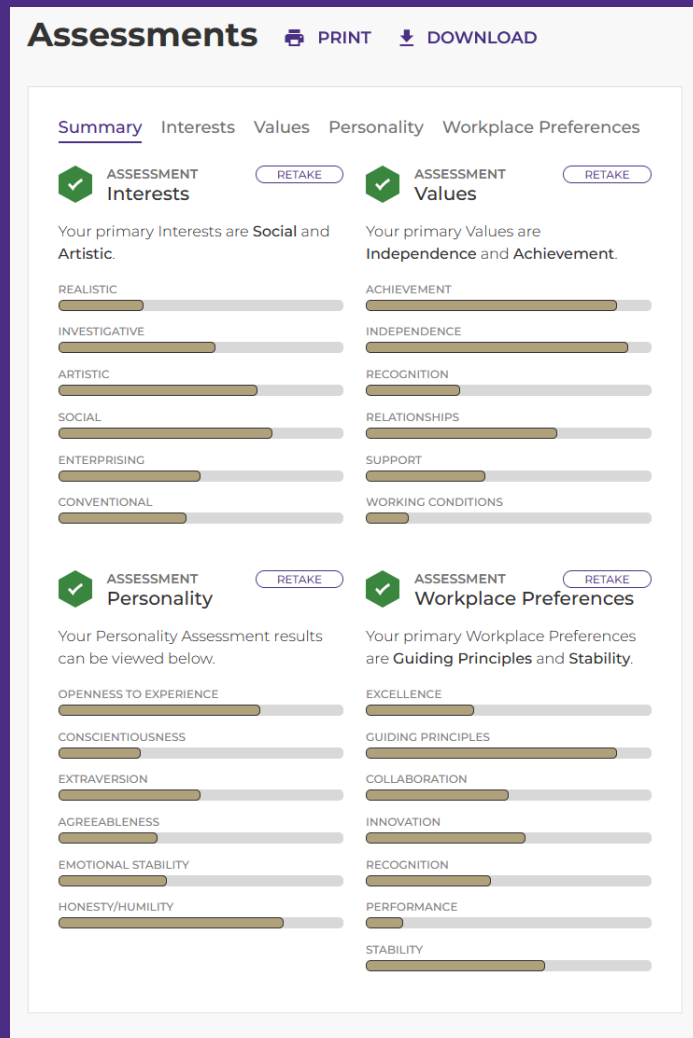
MY SCHOOL

Reach out for support

Meet with a UW career coach to further explore your PathwayU results and how they align with careers, majors, and job postings.

SET UP APPOINTMENT

Pathways U Assessment Results



Pathways U Career Matches By Subject

Career Matches by Subject

☒ VIEW BY SUBJECT AREA

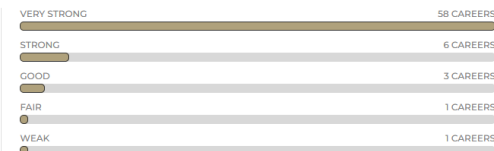
☐ VIEW ALL CAREERS



SUBJECT AREA Education

This subject area includes opportunities related to administration and administrative support; professional support services; and teaching and training. Examples of careers within this subject area include distance learning coordinators, library technicians, chemistry teachers, physical education specialists, secondary school teachers, and special education teachers.

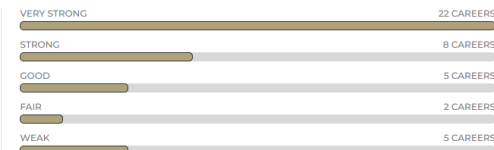
[VIEW CAREERS →](#)



SUBJECT AREA Human Services

This subject area includes opportunities related to consumer services; counseling and mental health services; early childhood development and services; family and community services; and personal care services. Examples of careers within this subject area include clinical psychologists, rehabilitation counselors, childcare workers, fitness trainers, and personal care aides.

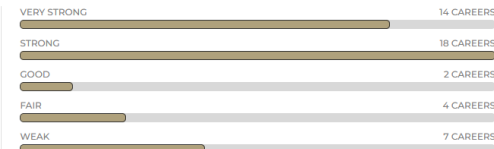
[VIEW CAREERS →](#)



SUBJECT AREA Arts, Media, & Communication

This subject area includes opportunities related to journalism and broadcasting; performing arts; printing technology; telecommunications; and visual arts. Examples of careers within this subject area include audio and video equipment technicians, broadcast news analysts, sound engineering technicians, writers and authors, producers, music directors, craft artists, and graphic designers.

[VIEW CAREERS →](#)



SUBJECT AREA Health Science

This subject area includes opportunities related to biotechnology research and development; diagnostic services; health informatics; support services; and therapeutic services. Examples of careers within this subject area include cytogenetic technologists, surgical assistants, acupuncturists, chiropractors, dentists, occupational therapists, and veterinarians.

[VIEW CAREERS →](#)



Final Questions and Slide Posting

- > More BSE information is available on the SEFS web site at <https://sefs.uw.edu/students/undergraduate/bse-major/>
- > These slides are posted at <https://sefs.uw.edu/students/undergraduate/academic-planning-resources/> We look forward to working with you during your time here!

