



EOU Mountaineer Advantage Program Math Major Map

**ONLINE &
ON CAMPUS
DEGREE**

High School 2.0 courses or dual credit from EOU or Community College:

EST 12/22

- Chem 101, 102 SMI Gen Ed (HS Diploma require Science) or BIO 101, 102, 103* SMI Gen Ed
- CS 161, 162 (CS 161 pre-req & MATH 111) (HS Diploma Additional Credits 5.0)
- COM 111Z GTW Gen Ed (HS Diploma Additional Credits 5.0)
- Spanish 107, 108, 109 AEH Gen Ed (HS Diploma requirements 2nd Language)
- MATH 111Z or MATH 111 A/B* (Community College) or Dual Credit through EOU (Prerequisite for MATH 112)
- MATH 112Z or MATH 112 A/B* (Community College) or Dual Credit through EOU (Prerequisite for MATH 251)
- MATH 251 or MATH 251 A/B* SMI Gen Ed (Prerequisite is MATH 252) (Community College) or Dual Credit through EOU
- MATH 252 Calculus II* SMI Gen Ed Dual Credit through EOU (Prerequisite is MATH 251)
- STAT 243Z or STAT 243 A/B* SMI Gen Ed (Community College) or Dual Credit through EOU
- WR 121Z (Community College)

EOU coursework taken on campus or online directly while still in High School!

- STAT 243Z or STAT 243 A/B* Elementary Statistics SMI Gen Ed (Accuplacer or MATH 095 or above passed)
- MATH 251 Calculus I or MATH 251 A/B* (Pre-req MATH 112)
- MATH 252 Calculus II or MATH 252 A/B* (Pre-req MATH 251)

*Indicates to check with Accuplacer requirements. 

EOU Major Checklist 100-200 Courses

Satisfies General Education Requirements.

Complete 24 or 28 credit hours from the following:

- CS 161 Foundations of CS I
- CS 162 Foundations of CS II
- STAT 243Z Elementary Stats SMI Gen Ed
- MATH 251 Calculus I SMI Gen Ed
- MATH 252 Calculus II SMI Gen Ed
- MATH 253 Calculus III SMI Gen Ed
- MATH 254 Calculus IV SMI Gen Ed

**UP to 45 Credits
towards your Degree**

**Up to \$12,500 Savings on the first year of
college tuition.**

- CHEM 101 Satisfies SMI Gen Education Credit
- CHEM 102 Satisfies SMI Gen Education Credit
- BIO 101 Satisfies SMI Gen Education Credit
- BIO 102 Satisfies SMI Gen Education Credit
- BIO 103 Satisfies SMI Gen Education Credit
- SPAN 107 Satisfies AEH Gen Education Credit
- SPAN 108 Satisfies AEH Gen Education Credit
- SPAN 109 Satisfies AEH Gen Education Credit
- WR 121 Satisfies College Level Writing Req.
Gen Ed GTW
- COM 111Z Satisfies GTW Gen Education Credit
- MATH courses _____
- STAT 243Z Satisfies SMI Gen Education Credit

Complete all Institutional Graduation Requirements (Including University Writing Requirement, Diversity Requirement, General Education Requirement, etc.) as provided at <http://www.eou.edu/registrar>.



Math Major

1. **What does HS Diploma requirement mean?** The Essential Skills that students should be developing throughout grades K- 12. The requirements come from the state of Oregon and your district may have additional requirements.
2. **What is a pre-requisite?** A pre-requisite needs to be taken and passed before the class stated can be attempted.
3. **On Campus or Online?** If you see on campus on the MAP you will be able to take the course on the EOU campus. If you see online, no matter where you are you will be able to take the course online specifically from Eastern Oregon University.
4. **The middle list of courses; how are they different?** The middle courses are courses that you can take directly at our campus or online from EOU. This will allow a student to take classes while still in high school so they still have as much of the home and school support they are used to with additional academic supports from Eastern.
5. **When I see OR what does it mean?** Make sure that you pay attention to the **OR** if you see it. That means you have some choices to make. You will not need to take both courses or both locations. Complete which one fits your goals best.
6. **Major Checklist 100-200?** While you most likely will still need other general education requirements, this will give you an idea of what is expected in your specific major.
7. **What is a UWR?** If you see the letters UWR it is a University Writing Requirement. Each field has them in their major. Plan on a lot of writing in the course.
8. **What does satisfies SMI or AEH Gen Education Credit mean?** The General Education Core (GEC) provides opportunities for students to become reflective, responsible citizens who see multiple points of view. The 60 credit GEC curriculum serves the diverse student body of Eastern Oregon University by helping students to integrate into university life and challenging them to become critical, creative thinkers and engaged, knowledgeable citizens, open to new ways of looking at the world. The SMI, SSC, AEH, APC, and GTW are categories in the general education expectations. If you see them on your MAP that means that the course would count toward a General Education class that you already need no matter what major you are choosing.
9. **What is a college level requirement?** Each student is required to pass first-year writing courses. This course is WR 121 at EOU. College level math can be through multiple 100 and 200 level courses such as MATH 105, MATH 111, (for educators MATH 211, 212, 213) or Stats 243 or (243a and 243b for online). Pay attention to what your major needs you to complete.



EOU Mountaineer Advantage Program

Data Analytics Major Map

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- MATH 252 Calculus II* SMI Gen Ed Dual Credit through EOU (Prerequisite is MATH 251)
- STAT 243 or STAT 243 A/B* SMI Gen Ed (Community College) or Dual Credit through EOU
- WR 121 (Community College)

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- STAT 243 (A/B)* SMI Gen Ed Elementary Statistics (Accuplacer or MATH 95 or above passed)
- CS 221 C/C++ Programming (Pre-req CS 162)
- GEOG 201 Introduction to GIS SMI Gen Ed

*Indicates to check with Accuplacer requirements. 

EOU Major Checklist 100-200 Courses

Satisfies General Education Requirements.

Required core mathematics/statistic courses 24-25 credit hours (see checklist)

- STAT 243 Elementary Stats SMI Gen Ed
- MATH 231 Discrete Mathematics
- MATH 251 Calculus I SMI Gen Ed
- MATH 252 Calculus II SMI Gen Ed

Required core computer science courses 24 credit hours (see checklist)

- CS 161 Foundations of CS I
- CS 162 Foundations of CS II
- CS 221 C/C++ Programming
- CS 260 Data Structures (UWR)
- GEOG 201 Introduction to GIS SMI Gen Ed

- CHEM 101 Satisfies SMI Gen Education Credit
- CHEM 102 Satisfies SMI Gen Education Credit
- BIO 101 Satisfies SMI Gen Education Credit
- BIO 102 Satisfies SMI Gen Education Credit
- BIO 103 Satisfies SMI Gen Education Credit
- SPAN 107 Satisfies AEH Gen Education Credit
- SPAN 108 Satisfies AEH Gen Education Credit
- SPAN 109 Satisfies AEH Gen Education Credit
- WR 121 Satisfies College Level Writing Req.
Gen Ed GTW
- COM 112 Satisfies GTW Gen Education Credit
- MATH courses _____
- STAT 243 Satisfies SMI Gen Education Credit

Complete all Institutional

(Including University Writing Requirement, Diversity Requirement, General

Graduation Requirements

Education Requirement, etc.) as provided at <http://www.eou.edu/registrar>.



Data Analytics Major

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