

SCIENCE BIOLOGY Endorsement
Academic Preparation Form

Applicants to the Biology Mid-High endorsement typically come from biology, environmental studies/sciences, or any other degree in the biological sciences (biochemistry, bioengineering, genetics, molecular biology, marine biology) or equivalent majors and exemplify their subject area expertise through both:

- A. Academic preparation evidence (coursework listed below from undergraduate or post-baccalaureate transcripts)
- B. A passing [Biology subject area NES / ORELA](#) test

Please use this form to articulate what you have experienced in your academic preparation for Biology. List all related courses you have taken and/or plan to take prior to the start of the program in the category you think best describes your learning experience. The admissions file review team will review and consider all Biology applicants, regardless of perceived “gaps.”

Full Name: _____ Undergrad University: _____ Today's Date _____
 Email: _____ Major/Minors: _____ o Semester o Term

Biology: Oregon TSPC requires a combination of 28 upper division credits in Biology and other foundational science hours of academic preparation in the following areas. Please reference the NES/ORELA content area test framework:

http://www.orela.nesinc.com/Content/Docs/NES_Framework_305.pdf

Course Content	Course #	Course Title	#Course Credits	Transcript Grade	Date (YR/Term)	School
<i>Example</i>	<i>BI 199</i>	<i>SpSt Happiness NeurPsy</i>	<i>4</i>	<i>A</i>	<i>2020 S</i>	<i>UO</i>
1. Ecology and environment (minimum 2 courses)						
2. Genetics and evolution (minimum 2 courses)						
3. Nature of science (<i>scientific literacy/understanding of scientific concepts/scientific decision-making</i>) (minimum 1 course)						
4. Biochemistry and cell biology (minimum 1 course)						
5. Biological unity and diversity (minimum 1 course)						
Total Credit Hours:				Subject Area GPA:		

Comments (*this is also a good space to explain any GPA issues, if your GPA is lower than 3.0*):

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SCIENCE CHEMISTRY Endorsement
Academic Preparation Form

Applicants to the Chemistry Mid-High endorsement typically come from chemistry, or any other degree in the chemical sciences (chemical engineering, biochemistry) or equivalent majors and exemplify their subject area expertise through:

- A. Academic preparation evidence (coursework listed below from undergraduate or post-baccalaureate transcripts)
- B. A passing [Chemistry subject area NES / ORELA test](#)

Please use this form to articulate what you have experienced in your academic preparation for Chemistry. List all related courses you have taken and/or plan to take prior to the start of the program in the category you think best describes your learning experience. The admissions file review team will review and consider all Chemistry applicants, regardless of perceived "gaps."

Full Name: _____ Undergrad University: _____ Today's Date _____
 Email: _____ Major/Minors: _____ o Semester o Term

Chemistry / Science: Oregon TSPC requires a combination of 27 upper division and other foundational science hours of academic preparation in the following areas. Please reference the NES/ORELA content area framework:
http://www.orela.nesinc.com/Content/Docs/NES_Framework_306.pdf

Course Content	Course #	Course Title	#Course Credits	Transcript Grade	Date (YR/Term)	School
<i>Example</i>	CH 401	Res Biochem/Evolution	4	A	2020 S	UO
1. Chemical reactions, energy, bonding (minimum 3 courses)						
2. Matter and atomic structure (minimum 1 course)						
3. Stoichiometry and solutions (minimum 1 course)						
4. Nature of science ((<i>scientific literacy/understanding of scientific concepts/scientific decision-making</i>) (minimum 1 course)						
Total Credit Hours:				Subject Area GPA:		

Comments (*this is also a good space to explain any GPA issues, if your GPA is lower than 3.0*):

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SCIENCE PHYSICS Endorsement
Academic Preparation Form



DEPARTMENT OF EDUCATION STUDIES

Applicants to the Physics Mid-High endorsement typically come from physics, or any other degree in astronomy, engineering or equivalent majors and exemplify their subject area expertise through:

- A. Academic preparation evidence (coursework listed below from undergraduate or post-baccalaureate transcripts)
- B. A passing [Physics subject area NES / ORELA test](#)

Please use this form to articulate what you have experienced in your academic preparation for Physics. List all related courses you have taken and/or plan to take prior to the start of the program in the category you think best describes your learning experience. The admissions file review team will review and consider all Physics applicants, regardless of perceived “gaps.”

Full Name: _____ Undergrad University: _____ Today’s Date _____
 Email: _____ Major/Minors: _____ o Semester o Term

Physics: Oregon TSPC requires a combination of 27 upper division and other foundational science hours of academic preparation in the following areas. Please reference the NES/ORELA content area framework: http://www.orela.nesinc.com/Content/Docs/NES_Framework_308.pdf

Course Content	Course #	Course Title	#Course Credits	Transcript Grade	Date (YR/Term)	School
<i>Example</i>	<i>PHYS 253</i>	<i>Foundat Physics I</i>	<i>4</i>	<i>A</i>	<i>2020 S</i>	<i>UO</i>
1. Modern physics (minimum 3 courses)						
2. Mechanics (minimum 1 course)						
3. Electricity and magnetism (minimum 1 course)						
4. Nature of Science ((<i>scientific literacy/understanding of scientific concepts/scientific decision-making</i>) (minimum 1 course)						
Total Credit Hours:				Subject Area GPA:		

Comments (*this is also a good space to explain any GPA issues, if your GPA is lower than 3.0*):

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INTEGRATED/GENERAL SCIENCE Endorsement
Academic Preparation Form

Applicants to the Integrated Science Mid-High endorsement typically come from Biology, Chemistry, Physics, Integrated Physical Science, Life Science, Earth Science (e.g. Marine Science, Geology, Meteorology, Astronomy) or any other degree in astronomy, engineering or equivalent majors and exemplify their subject area expertise through both:

- A. Academic preparation evidence (coursework listed below from undergraduate or post-baccalaureate transcripts)
- B. A passing [General / Integrated Science subject area NES / ORELA test](#)

Please use this form to articulate what you have experienced in your academic preparation for Integrated/General Sciences. List all related courses you have taken and/or plan to take prior to the start of the program in the category you think best describes your learning experience. The admissions file review team will review and consider all applicants, regardless of perceived “gaps.”

Full Name: _____ Undergrad University: _____ Today's Date _____
 Email: _____ Major/Minors: _____ o Semester o Term

Integrated / General Science: Oregon TSPC requires the following areas of academic preparation. Please reference the NES/ORELA content area test framework: http://www.orela.nesinc.com/Content/Docs/NES_Framework_311.pdf

Course Content	Course #	Course Title	#Course Credits	Transcript Grade	Date (YR/Term)	School
<i>Example</i>	<i>ENVS 411</i>	<i>Multispecies St & Anth</i>	<i>4</i>	<i>A</i>	<i>2020 S</i>	<i>UO</i>
1. Physical science (study of inanimate natural objects, including physics, chemistry, astronomy, and related subjects) (minimum 2 courses)						
2. Life science (sciences that have to do with 'organisms', like plants, animals and human beings) (minimum 2 courses)						
3. Earth/space science (interconnections between the land, ocean, atmosphere, and life of our planet) (minimum 2 courses)						
4. Nature of science (scientific literacy/understanding of scientific concepts/scientific decision-making) (minimum 1 course)						
Total Credit Hours:				Subject Area GPA:		

Comments (*this is also a good space to explain any GPA issues, if your GPA is lower than 3.0*):

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