



University of Washington Office of the President, Box 351230

January 26, 2004

Dean David C. Hodge  
College of Arts and Sciences  
Box 353765

Dear David:

Based upon the recommendation of its Subcommittee on Admissions and Programs, the Faculty Council on Academic Standards has recommended approval of the revised program requirements for a Bachelor of Arts and Science degrees in Earth and Space Sciences. A copy of the change is attached.

I am writing to inform you that the Department of Earth and Space Sciences is authorized to specify these requirements beginning spring quarter 2004.

The new requirements should be incorporated in printed statements and in individual department websites as soon as possible. The *General Catalog* website will be updated accordingly by the Registrar's Office.

Sincerely yours,

Lee L. Huntsman  
President

Enclosure

cc: Professor J. Michael Brown (with enclosure)  
Mr. W. W. Washburn (with enclosure)  
Mr. Robert Corbett (with enclosure) *ESS-111463*



ESS-111403

# New or Revised Undergraduate Admission or Program Requirements

After college/school review, send signed original and 7 copies to: FCAS, Box 351271

College or School Arts and Sciences	Department/Unit Earth and Space Sciences	Date 11/14/03
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xCheck Appropriate Box

- New Admission Requirements     
 Revised Program Requirements     
 New Option  
 Revised Admission Requirements     
 New Minor     
 New Major/Degree

Explanation of proposed changes or new programs. Attach additional page if necessary:

- The ESS Curriculum Committee has determined that the new course ESS 314 Geophysics: Expedition to Planet Earth, should be made available as a choice in the required 300-level course for all ESS BS majors.
- We will also make this option available to all of our continuing students in the "old" Geological Sciences BS majors.
- Corrections are made in the BS Physics Option regarding both the number of supporting science credits, and the subsequent number of ESS electives credits, so that the total for the major does not exceed 90 credits.

Desired Implementation date (no earlier than one full quarter after anticipated date of approval): As soon as possible.

Existing Catalog Statement	Proposed Catalog Statement ( <u>underline</u> for additions, <del>strike through</del> for deletions)
<p><b>Bachelor of Science</b></p> <p><i>Major Requirements:</i>  <i>Science Core (35 Credits):</i></p> <ol style="list-style-type: none"> <li><i>Basic Supporting Science (20 Credits):</i> MATH 124, 125 or equivalent; PHYS 114, 117 or 121; CHEM 142. (Students wishing to pursue the ESS Physics option should take Physics 121.)</li> <li><i>ESS Required Core Courses (15 Credits):</i> ESS 211, 212, 213. (Students wishing to pursue the ESS Physics option may also take ESS 205 to count in this area.)</li> </ol> <p><i>ESS Options (55 Credits):</i></p> <ol style="list-style-type: none"> <li><i>Standard Option.</i> Supporting science (13-15 credits): MATH 126 or equivalent; PHYS 115, 118 or 122; and one of PHYS 116, 119 or 123, CHEM 152, MATH 307, 308, STAT 311. ESS required: (22 credits): Two of ESS 311, 312, 313; ESS 400 or equivalent field/experiential component. ESS electives (18-20 credits): ESS 400-level courses or any ESS 311-series course not taken as a required course, above. (May not include independent study or seminar courses numbered 490 through 499.)</li> <li><i>Biology Option.</i> Supporting science (21 credits): CHEM 152, 162 or equivalent; BIOL 180, 200 (or two from BIOL 201, 202, 203); MATH 126 recommended but not required. ESS required (22 credits): Two of ESS 311, 312, 313; ESS 400 or equivalent field/experiential component. ESS electives (12 credits): ESS 400-level courses or any ESS 311-series course not taken as a required course, above. (May not include independent study or seminar courses numbered 490 through 499.)</li> </ol>	<p><b>Bachelor of Science</b></p> <p><i>Major Requirements:</i>  <i>Science Core (35 Credits):</i></p> <ol style="list-style-type: none"> <li><i>Basic Supporting Science (20 Credits):</i> MATH 124, 125 or equivalent; PHYS 114, 117 or 121; CHEM 142. (Students wishing to pursue the ESS Physics option should take Physics 121.)</li> <li><i>ESS Required Core Courses (15 Credits):</i> ESS 211, 212, 213. (Students wishing to pursue the ESS Physics option may also take ESS 205 to count in this area.)</li> </ol> <p><i>ESS Options (55 Credits):</i></p> <ol style="list-style-type: none"> <li><i>Standard Option.</i> Supporting science (13-15 credits): MATH 126 or equivalent; PHYS 115, 118 or 122; and one of PHYS 116, 119 or 123, CHEM 152, MATH 307, 308, STAT 311. ESS required: (22 credits): Two of ESS 311, 312, 313, <u>314</u>; ESS 400 or equivalent field/experiential component. ESS electives (18-20 credits): ESS 400-level courses or any ESS 311-series course not taken as a required course, above. (May not include independent study or seminar courses numbered 490 through 499.)</li> <li><i>Biology Option.</i> Supporting science (21 credits): CHEM 152, 162 or equivalent; BIOL 180, 200 (or two from BIOL 201, 202, 203); MATH 126 recommended but not required. ESS required (22 credits): Two of ESS 311, 312, 313, <u>314</u>; ESS 400 or equivalent field/experiential component. ESS electives (12 credits): ESS 400-level courses or any ESS 311-series course not taken as a required course, above. (May not include independent study or seminar courses numbered 490 through 499.)</li> </ol>

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<p>3. <i>Physics Option</i>. Supporting science (33 credits): MATH 126, 308, 324 or MATH 136, 324; PHYS 122, 123, 227, 228, 321, 322. ESS required (5 credits): One of ESS 311, 312, 313. ESS electives (17 credits): ESS 400-level courses or any ESS 311-series course not taken as a required course, above. (May not include independent study or seminar courses numbered 490 through 499.)</p> <p><i>All courses must be completed with a minimum grade of 2.0.</i></p>	<p>3. <i>Physics Option</i>. Supporting science (<del>33</del> <u>32-35</u> credits): MATH 126, 308, 324 or MATH 136, 324; PHYS 122, 123, 227, 228, 321, 322. ESS required (5 credits): One of ESS 311, 312, 313, <u>314</u>. ESS electives (<del>17</del> <u>15-18</u>credits): ESS 400-level courses or any ESS 311-series course not taken as a required course, above. (May not include independent study or seminar courses numbered 490 through 499.)</p> <p><i>All courses must be completed with a minimum grade of 2.0.</i></p>		
Chair	Date	Dean	Date
	11/24/03		DEC 01 2003
College Committee	Date	Faculty Council on Academic Standards	Date
	DEC 01 2003		1/9/04

ESS-114103



# New or Revised Undergraduate Admission or Program Requirements

After college/school review, send signed original and 7 copies to: FCAS, Box 351271

College or School Arts and Sciences	Department/Unit Earth and Space Sciences	Date 11/21/03
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xCheck Appropriate Box

<input type="checkbox"/> New Admission Requirements	<input checked="" type="checkbox"/> Revised Program Requirements	<input type="checkbox"/> New Option
<input type="checkbox"/> Revised Admission Requirements	<input type="checkbox"/> New Minor	<input type="checkbox"/> New Major/Degree

Explanation of proposed changes or new programs. Attach additional page if necessary:

- The ESS Curriculum Committee has determined that the new course ESS 314 Geophysics: Expedition to Planet Earth, should be made available as a choice in the required 300-level core courses for all ESS BA majors.
- We will also make this option available to all of our continuing students in the "old" Geological Sciences BA majors.
- We are adding STAT 311 to the approved list of Optional Supporting Science Courses for the BA major.

Desired Implementation date (no earlier than one full quarter after anticipated date of approval): *As soon as possible.*

Existing Catalog Statement	Proposed Catalog Statement ( <u>underline</u> for additions, <del>strike through</del> for deletions)
<p><b>Bachelor of Arts</b></p> <p><i>Major Requirements:</i></p> <p><i>Supporting Science (35 Credits):</i></p> <ul style="list-style-type: none"> <li>CHEM 142</li> <li>Q SCI 291, 292 or MATH 124, 125 or equivalent</li> <li>PHYS 114/117 or PHYS 121</li> <li>Optional courses: 15 credits selected from CHEM 152, 162, PHYS 115/118, 116/119, 122, 123, BIOL 101-102 (or one or more of 180, 200, 220, 201, 202, 203), CSE 142, Q SCI 381, 392, 393 or MATH 126 or equivalent, GEOG 360, 460.</li> </ul> <p><i>ESS Courses (55 Credits):</i></p> <ul style="list-style-type: none"> <li>Two of ESS 211, 212, 213</li> <li>One of ESS 311, 312, 313.</li> <li>Elective Courses: 40 upper division credits of ESS courses (300- and 400-level) with at least 10 credits at the 400-level. (May not include independent study or seminar courses numbered 490 through 499.)</li> </ul> <p><i>All courses must be completed with a minimum grade of 2.0</i></p>	<p><b>Bachelor of Arts</b></p> <p><i>Major Requirements:</i></p> <p><i>Supporting Science (35 Credits):</i></p> <ul style="list-style-type: none"> <li>CHEM 142</li> <li>Q SCI 291, 292 or MATH 124, 125 or equivalent</li> <li>PHYS 114/117 or PHYS 121</li> <li>Optional courses: 15 credits selected from CHEM 152, 162, PHYS 115/118, 116/119, 122, 123, BIOL 101-102 (or one or more of 180, 200, 220, 201, 202, 203), CSE 142, Q SCI 381, 392, 393, <u>MATH 126</u> or equivalent, GEOG 360, 460, <u>STAT 311</u>.</li> </ul> <p><i>ESS Courses (55 Credits):</i></p> <ul style="list-style-type: none"> <li>Two of ESS 211, 212, 213</li> <li>One of ESS 311, 312, 313, <u>314</u>.</li> <li>Elective Courses: 40 upper division credits of ESS courses (300- and 400-level) with at least 10 credits at the 400-level. (May not include independent study or seminar courses numbered 490 through 499.)</li> </ul> <p><i>All courses must be completed with a minimum grade of 2.0</i></p>

Chair <i>[Signature]</i>	Date 11/24/03	Dean <i>[Signature]</i>	Date DEC 01 2003
College Committee <i>[Signature]</i>	Date DEC 01 2003	Faculty Council on Academic Standards <i>[Signature]</i>	Date 1/9/04