Earth Sciences Minor (Earth Sciences subprogram)

School of Earth Sciences, 275 Mendenhall Laboratory, 125 South Oval Mall, Columbus, OH 43210-1398; Dr. Karen Royce; 614-292-6961; royce.6@osu.edu; http://earthsciences.osu.edu/

With this minor, students will have critical knowledge and hands-on experience to participate successfully in many public, private and international career opportunities such as government research, homeland security, environmental consulting, oil and natural gas exploration & production, international business, precious and industrial mineral exploration, mining, and processing, renewable and alternative energy resources, and education.

The subprogram in Earth Sciences requires a minimum of 12 semester credit hours in core courses. Preparation for the minor includes two courses (listed below), for a total minimum of 19 credit hours. Some of the core courses have additional pre-requisite courses that are not part of the minor.

To declare this minor, schedule an appointment to meet with the coordinating adviser in the School of Earth Sciences (SES) and discuss the minor requirements. Many of the Earth Sciences courses are taught on a specific course offering schedule and SES wants to help you schedule our classes accordingly. Also, any variation from the program described below needs the approval of the coordinating advisor in SES. For further information about the minor program, contact the coordinating advisor (contact information above).

*Some courses in this minor may have pre-requisites. Please consult the course bulletin before enrolling in courses.

**Preparation for the minor (7–8 hours)**
Earth Sciences 1100 or 1105 or 1108 or 1110 or 1121 or 1151 or 2155 (3 or 4 hours)
Earth Sciences 1122 (4 hours)
Where available, an Honors version can substitute for the equivalent non-Honors courses listed above.

**Core Courses (12 credit hours required)**
Complete a minimum of 12 semester hours in Earth Sciences at the 2000-level or above, with at least 3 credit hours at the 3000-level or higher. A maximum of 3 total credit hours among internship (x191), research (x998, x999), or individual study (x193) can be counted towards the minor.

**Additional courses**
None required.

**Earth Sciences (Earth Sciences subprogram) minor program guidelines**
The following guidelines govern the Earth Sciences subprogram of the Earth Sciences minor:

**Required for graduation** No

**Credit hours required** A minimum of 12 credit hrs. 1000 level courses shall not be counted in the minor. At least 3 credits must be at the 3000 level or above.

**Transfer and EM credit hours allowed** A student is permitted to count up to 6 total hours of transfer credit and/or credit by examination.

**Overlap with the GE** A student is permitted to overlap up to 6 credit hours between the GE and the minor.

**Overlap with the major and additional minor(s)**
- The minor must be in a different subject than the major.
- The minor must contain a minimum of 12 hours distinct from the major and/or additional minor(s).

**Grades required**
- Minimum C- for a course to be listed on the minor.
- Minimum 2.00 cumulative GPA for all minor course work minor.
- Course work graded Pass/Non-Pass cannot count on the minor.
- No more than 3 credit hours of coursework graded Satisfactory/Unsatisfactory may count toward the minor.

X191, x998, x999, x193 No more than 3 credit hrs

**Minor approval** The minor program must be approved by the academic unit offering the minor.

**Filing the minor program form** The minor program form must be filed at least by the time the graduation application is submitted to a college/school counselor.

**Changing the minor** Once the minor program is filed in the college office, any changes must be approved by the academic unit offering the minor.

College of Arts and Sciences
Curriculum and Assessment Services
154 Denney Hall, 164 W. 17th Ave.
http://artsandsciences.osu.edu

Received 5/28/12 DH
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Earth Sciences Minor (Paleontology subprogram)

School of Earth Sciences, 275 Mendenhall Laboratory, 125 South Oval Mall, Columbus, OH 43210-1398; Dr. Karen Royce; 614-292-6961; royce.6@osu.edu; http://earthsciences.osu.edu/

With this minor, students will have critical knowledge and hands-on experience to participate successfully in many public, private and international careers and commerce. Preparation for the minor includes 7 or 8 credit hours, for a total minimum of 19 credit hours. Some of the required courses have additional pre-requisite courses that are not part of the minor.

The minor in Earth Sciences with an emphasis in paleontology offers the background necessary for a better understanding of Earth’s biosphere and the chemical and physical processes affecting life on Earth.

To declare this minor, schedule an appointment to meet with the coordinating advisor in the School of Earth Sciences (SES) and discuss the minor requirements. Many of the Earth Sciences courses are taught on a specific course offering schedule and SES wants to help you schedule our classes accordingly. Also, any variation from the program described below needs the approval of the coordinating advisor in SES. For further information about the minor program, contact the coordinating advisor (contact information above).

*Some courses in this minor may have pre-requisites. Please consult the course bulletin before enrolling in courses.

Preparation for the minor
Earth Sciences 1100 or 1105 or 1108 or 1121 or 1151 or 2155 (3 or 4 hours)
Earth Sciences 1122 (4 hours)
Honors versions of these courses, where they exist, may be substituted.

Core Course (4 credit hours required)
Earth Sciences 4501 (4 hours)

Additional courses (at least 8 additional hours are required)
Earth Sciences 4502 (4 hours)
Earth Sciences 5602.01 (2 hours)
Earth Sciences 5602.02 (2 hours)
Earth Sciences 5613 (4 hours)
Earth Sciences 5614 (4 hours)
Earth Sciences 5615 (4 hours)
Earth Sciences 5621 (3 hours)
Earth Sciences 5206 (3 hours)

Earth Sciences (Paleontology subprogram) minor program guidelines

The following guidelines govern the Paleontology subprogram of the Earth Sciences minor:

Required for graduation
No

Credit hours required
A minimum of 12 credit hrs. 1000 level courses shall not be counted in the minor.

Transfer and EM credit hours allowed
A student is permitted to count up to 6 total hours of transfer credit and/or credit by examination.

Overlap with the GE
A student is permitted to overlap up to 6 credit hours between the GE and the minor.

Overlap with the major and additional minor(s)
• The minor must be in a different subject than the major.
• The minor must contain a minimum of 12 hours distinct from the major and/or additional minor(s).

Grades required
• Minimum C- for a course to be listed on the minor.
• Minimum 2.00 cumulative GPA for all minor course work
• Course work graded Pass/Non-Pass cannot count on theminor.
• No more than 3 credit hours of coursework graded Satisfactory/Unsatisfactory may count toward the minor.

X193 credits
No more than 3 credit hours.

Minor approval
The minor program must be approved by the academic unit offering the minor.

Filing the minor program form
The minor program form must be filed at least by the time the graduation application is submitted to a college/school counselor.

Changing the minor
Once the minor program is filed in the college office, any changes must be approved by the academic unit offering the minor.
Earth Sciences Minor (Economic Geology subprogram)

The minor in Earth Sciences with an emphasis in economic exploration, mining, and processing, renewable and alternative resources, and natural gas exploration and production.

**Preparation for the minor**
Earth Sciences 1121 or H1121 (4 hours)

**Core Courses (9 credit hours required)**
Earth Sciences 2210 (3 hours)
Earth Sciences 4421 (3 hours)
Earth Sciences 4423 (3 hours)

**Additional courses (at least 1 additional course is required) to total at least 12 semester hours in the minor**
Earth Sciences 5621 (3 hours)
Earth Sciences 5680 (4 hours)
Earth Sciences 5670 (2–4 hours)

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**Earth Sciences (Economic Geology subprogram) minor program guidelines**

The following guidelines govern the Economic Geology subprogram of the Earth Sciences minor:

**Required for graduation**

- **No**

**Credit hours required**
A minimum of 12 credit hrs. 1000 level courses shall not be counted in the minor.

**Transfer and EM credit hours allowed**
A student is permitted to count up to 6 total hours of transfer credit and/or credit by examination.

**Overlap with the GE**
A student is permitted to overlap up to 6 credit hours between the GE and the minor.

**Overlap with the major and additional minor(s)**
- The minor must be in a different subject than the major.
- The minor must contain a minimum of 12 hours distinct from the major and/or additional minor(s).

**Grades required**
- Minimum C- for a course to be listed on the minor.
- Minimum 2.00 cumulative GPA for all minor course work.
- Course work graded Pass/Non-Pass cannot count on the minor.
- No more than 3 credit hours of coursework graded Satisfactory/Unsatisfactory may count toward the minor.

**X193 credits**
No more than 3 credit hours.

**Minor approval**
The minor program must be approved by the academic unit offering the minor.

**Filing the minor program form**
The minor program form must be filed at least by the time the graduation application is submitted to a college/school counselor.

**Changing the minor**
Once the minor program is filed in the college office, any changes must be approved by the academic unit offering the minor.
School of Earth Sciences, 275 Mendenhall Laboratory, 125 South Oval Mall, Columbus, OH 43210-1398; Dr. Karen Royce; 614-292-6961; royce.6@osu.edu; http://earthsciences.osu.edu/

With this minor, students will have critical knowledge and hands-on experience to participate successfully in many public, private and international career opportunities such as government research, homeland security, environmental consulting, oil and natural gas exploration & production, international business, precious and industrial mineral exploration, mining, and processing, and renewable and alternative energy resources, and education.

The subprogram in geoarcheology requires a minimum of 13 credit hours in upper-level Earth Sciences courses. Preparation for the minor includes Earth Sciences 1121 and 1122, for a total minimum of 21 credit hours. Some of the required courses have additional pre-requisite courses that are not part of the minor.

The minor in Earth Sciences with an emphasis in geoarcheology offers the background necessary for a better understanding of the physical nature of natural and artifactual discoveries.

To declare this minor, schedule an appointment to meet with the coordinating adviser in the School of Earth Sciences (SES) and discuss the minor requirements. Many of the Earth Sciences courses are taught on a specific course offering schedule and SES wants to help you schedule our classes accordingly. Also, any variation from the program described below needs the approval of the coordinating advisor in SES. For further information about the minor program, contact the coordinating advisor (contact information above).

*Some courses in this minor may have pre-requisites. Please consult the course bulletin before enrolling in courses.

Prepare for the minor
Earth Sciences 1121 (4 hours)
Earth Sciences 1122 (4 hours)
Honors versions of the above courses can be substituted.

Core Courses (10 credit hours required)
Earth Sciences 4421 (3 hours)
Earth Sciences 4423 (3 hours)
Earth Sciences 4501 (4 hours)

Additional courses (at least 1 additional course is required)
Earth Sciences 4502 (4 hours)
Earth Sciences 4560 (3 hours)
Earth Sciences 5550 (4 hours)
Earth Sciences 5622 (3 hours)
Earth Sciences 5650 (4 hours)

Earth Sciences (Geoarcheology subprogram) minor program guidelines

The following guidelines govern the Geoarcheology subprogram of the Earth Sciences minor:

Required for graduation No

Credit hours required A minimum of 13 credit hrs. 1000 level courses shall not be counted in the minor.

Transfer and EM credit hours allowed
A student is permitted to count up to 6 total hours of transfer credit and/or credit by examination.

Overlap with the GE A student is permitted to overlap up to 6 credit hours between the GE and the minor.

Overlap with the major and additional minor(s)
• The minor must be in a different subject than the major.
• The minor must contain a minimum of 12 hours distinct from the major and/or additional minor(s).

Grades required
• Minimum C- for a course to be listed on the minor.
• Minimum 2.00 cumulative GPA for all minor course work
• Course work graded Pass/Non-Pass cannot count on the minor.
• No more than 3 credit hours of coursework graded Satisfactory/Unsatisfactory may count toward the minor.

X193 credits No more than 3 credit hours.

Minor approval The minor program must be approved by the academic unit offering the minor.

Filing the minor program form The minor program form must be filed at least by the time the graduation application is submitted to a college/school counselor.

Changing the minor Once the minor program is filed in the college office, any changes must be approved by the academic unit offering the minor.
### Earth Sciences Minor (Geophysics subprogram)

**School of Earth Sciences, 275 Mendenhall Laboratory, 125 South Oval Mall, Columbus, OH 43210-1398;**

**Dr. Karen Roce; 614-292-6961; royce.6@osu.edu;**

http://earthsciences.osu.edu/

With this minor, students will have critical knowledge and hands-on experience to participate successfully in many public, private, and international career opportunities such as government research, homeland security, environmental consulting, oil and natural gas exploration & production, international business, precious and industrial mineral exploration, mining, and processing, renewable and alternative energy resources, and education.

The subprogram in geophysics requires a minimum of 12 credit hours in upper-level Earth Sciences courses. Preparation for the minor includes two Earth Sciences introductory courses, for a total minimum of 18 credit hours. Some of the required courses have additional pre-requisite courses that are not part of the minor.

The minor in Earth Sciences with an emphasis in geophysics offers the background necessary to use of physics to understand Earth’s subsurface environment.

To declare this minor, schedule an appointment to meet with the coordinating advisor in the School of Earth Sciences (SES) and discuss the minor requirements. Many of the Earth Sciences courses are taught on a specific course offering schedule and SES wants to help you schedule our classes accordingly. Also, any variation from the program described below needs the approval of the coordinating advisor in SES. For further information about the minor program, contact the coordinating advisor (contact information above).

*Some courses in this minor may have pre-requisites. Please consult the course bulletin before enrolling in courses.*

### Preparation for the minor (complete 2 of the following courses)

- Earth Sciences 1121 (4 hours)
- Earth Sciences 1122 (4 hours)
- Earth Sciences 1151 (3 hours)
- Earth Sciences 2155 (3 hours)

Honors versions can substitute for 1121 and 1122.

### Core Courses (12 credit hours required)

Complete 12 hours in Earth Sciences at the 2000-level or above, with at least 9 of the credit hours chosen from the following.

- Earth Sciences 4310 (3 hours)
- Earth Sciences 4421 (3 hours)
- Earth Sciences 4423 (3 hours)
- Earth Sciences 4560 (3 hours)
- Earth Sciences 5680 (3 hours)
- Earth Sciences 5687 (3 hours)
- Earth Sciences 5780 (4 hours)

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### Earth Sciences (Geophysics subprogram) minor program guidelines

The following guidelines govern the Geophysics subprogram of the Earth Sciences minor:

**Required for graduation** No

**Credit hours required** A minimum of 12 credit hrs. 1000 level courses shall not be counted in the minor.

**Transfer and EM credit hours allowed** A student is permitted to count up to 6 total hours of transfer credit and/or credit by examination.

**Overlap with the GE** A student is permitted to overlap up to 6 credit hours between the GE and the minor.

**Overlap with the major and additional minor(s)**

- The minor must be in a different subject than the major.
- The minor must contain a minimum of 12 hours distinct from the major and/or additional minor(s).

**Grades required**

- Minimum C- for a course to be listed on the minor.
- Minimum 2.00 cumulative GPA for all minor course work
- Course work graded Pass/Non-Pass cannot count on the minor.
- No more than 3 credit hours of coursework graded Satisfactory/Unsatisfactory may count toward the minor.

**X193 credits** No more than 3 credit hours.

**Minor approval** The minor program must be approved by the academic unit offering the minor.

**Filing the minor program form** The minor program form must be filed at least by the time the graduation application is submitted to a college/school counselor.

**Changing the minor** Once the minor program is filed in the college office, any changes must be approved by the academic unit offering the minor.

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College of Arts and Sciences
Curriculum and Assessment Services
154 Denney Hall, 164 W. 17th Ave.
http://artsandsciences.osu.edu

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Earth Sciences Minor (Geochemistry subprogram)

School of Earth Sciences, 275 Mendenhall Laboratory, 125 South Oval Mall, Columbus, OH 43210-1398; Dr. Karen Royce; 614-292-6961; royce.6@osu.edu; http://earthsciences.osu.edu/

With this minor, students will have critical knowledge and hands-on experience to participate successfully in many public, private and international career opportunities such as government research, homeland security, environmental consulting, oil and natural gas exploration & production, international business, precious and industrial mineral exploration, mining, and processing, renewable and alternative energy resources, and education.

The subprogram in Geochemistry requires a minimum of 15 credit hours in upper-level Earth Sciences courses. Preparation for the minor includes Earth Sciences 1121 and 1122, for a total minimum of 23 credit hours. Some of the required courses have additional pre-requisite courses that are not part of the minor.

The minor in Earth Sciences with an emphasis in geochemistry offers the background necessary for a better understanding of the chemical nature of Earth’s environment.

To declare this minor, schedule an appointment to meet with the coordinating advisor in the School of Earth Sciences (SES) and discuss the minor requirements. Many of the Earth Sciences courses are taught on a specific course offering schedule and SES wants to help you schedule our classes accordingly. Also, any variation from the program described below needs the approval of the coordinating advisor in SES. For further information about the minor program, contact the coordinating advisor (contact information above).

*Some courses in this minor may have pre-requisites. Please consult the course bulletin before enrolling in courses.

**Preparation for the minor**
- Earth Sciences 1121 (4 hours)
- Earth Sciences 1122 (4 hours)

Honors version of these courses may be substituted.

**Core Courses (9 credit hours required)**

Complete 1 of the following courses:
- Earth Sciences 2203 (3 hours)
- Earth Sciences 2204 (3 hours)
- Earth Sciences 2206 (3 hours)

Complete both of the following courses
- Earth Sciences 4421 (3 hours)
- Earth Sciences 4423 (3 hours)

**Additional courses (at least 2 additional courses are required from the list below)**
- Earth Sciences 5621 (3 hours)
- Earth Sciences 5622 (3 hours)
- Earth Sciences 5627 (3 hours)
- Earth Sciences 5628 (3 hours)

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**Earth Sciences (Geochemistry subprogram) minor program guidelines**

The following guidelines govern the Geochemistry subprogram of the Earth Sciences minor:

- **Required for graduation** No
- **Credit hours required** A minimum of 15 credit hrs. 1000 level courses shall not be counted in the minor.
- **Transfer and EM credit hours allowed** A student is permitted to count up to 6 total hours of transfer credit and/or credit by examination.
- **Overlap with the GE** A student is permitted to overlap up to 6 credit hours between the GE and the minor.
- **Overlap with the major and additional minor(s)**
  - The minor must be in a different subject than the major.
  - The minor must contain a minimum of 12 hours distinct from the major and/or additional minor(s).

- **Grades required**
  - Minimum C- for a course to be listed on the minor.
  - Minimum 2.00 cumulative GPA for all minor course work
  - Course work graded Pass/Non-Pass cannot count on the minor.
  - No more than 3 credit hours of coursework graded Satisfactory/Unsatisfactory may count toward the minor.

- **X193 credits** No more than 3 credit hours.

**Minor approval** The minor program must be approved by the academic unit offering the minor.

**Filing the minor program form** The minor program form must be filed at least by the time the graduation application is submitted to a college/school counselor.

**Changing the minor** Once the minor program is filed in the college office, any changes must be approved by the academic unit offering the minor.
Earth Sciences Minor (Mineralogy and Petrology subprogram)

The Ohio State University
College of Arts and Sciences

School of Earth Sciences, 275 Mendenhall Laboratory, 125 South Oval Mall, Columbus, OH 43210-1398; Dr. Karen Royce; 614-292-6961; royce.6@osu.edu; http://earthsciences.osu.edu/

With this minor, students will have critical knowledge and hands-on experience to participate successfully in many public, private and international career opportunities such as government research, homeland security, environmental consulting, oil and natural gas exploration & production, international business, precious and industrial mineral exploration, mining, and processing, renewable and alternative energy resources, and education.

The subprogram in mineralogy and petrology requires a minimum of 12 credit hours in upper-level Earth Sciences courses. Preparation for the minor includes Earth Sciences 1121, for a total minimum of 16 credit hours. Some of the required courses have additional pre-requisite courses that are not part of the minor.

To declare this minor, schedule an appointment to meet with the coordinating adviser in the School of Earth Sciences (SES) and discuss the minor requirements. Many of the Earth Sciences courses are taught on a specific course offering schedule and SES wants to help you schedule our classes accordingly. Also, any variation from the program described below needs the approval of the coordinating advisor in SES. For further information about the minor program, contact the coordinating advisor (contact information above).

*Some courses in this minor may have pre-requisites. Please consult the course bulletin before enrolling in courses.

Preparation for the minor
Earth Sciences 1121
The Honors version of this course can be substituted.

Core Courses (6 credit hours required)
- Earth Sciences 4421 (3 hours)
- Earth Sciences 4423 (3 hours)

Additional courses (at least 6 additional hours are required, chosen from among these courses)

- Earth Sciences 5601.01 (4 hours)
- Earth Sciences 5601.02 (4 hours)
- Earth Sciences 5617 (4 hours)
- Earth Sciences 5621 (3 hours)
- Earth Sciences 5625 (4 hours)
- Earth Sciences 5636 (3 hours)

Earth Sciences (Mineralogy and Petrology subprogram) minor program guidelines

The following guidelines govern the Mineralogy and Petrology subprogram of the Earth Sciences minor:

Required for graduation No

Credit hours required A minimum of 12 credit hrs. 1000 level courses shall not be counted in the minor.

Transfer and EM credit hours allowed A student is permitted to count up to 6 total hours of transfer credit and/or credit by examination.

Overlap with the GE A student is permitted to overlap up to 6 credit hours between the GE and the minor.

Overlap with the major and additional minor(s)
- The minor must be in a different subject than the major.
- The minor must contain a minimum of 12 hours distinct from the major and/or additional minor(s).

Grades required
- Minimum C- for a course to be listed on the minor.
- Minimum 2.00 cumulative GPA for all minor course work
- Course work graded Pass/Non-Pass cannot count on the minor.
- No more than 3 credit hours of coursework graded Satisfactory/Unsatisfactory may count toward the minor.

X193 credits No more than 3 credit hours.

Minor approval The minor program must be approved by the academic unit offering the minor.

Filing the minor program form The minor program form must be filed at least by the time the graduation application is submitted to a college/school counselor.

Changing the minor Once the minor program is filed in the college office, any changes must be approved by the academic unit offering the minor.
School of Earth Sciences, 275 Mendenhall Laboratory, 125 South Oval Mall, Columbus, OH 43210-1398; Dr. Karen Royce; 614-292-6961; royce.6@osu.edu; http://earthsciences.osu.edu/

With this minor, students will have critical knowledge and hands-on experience to participate successfully in many public, private and international career opportunities such as government research, homeland security, environmental consulting, oil and natural gas exploration & production, international business, precious and industrial mineral exploration, mining, and processing, renewable and alternative energy resources, and education.

The subprogram in environmental studies requires a minimum of 12 credit hours in upper-level Earth Sciences courses. Preparation for the minor includes one course chosen from 7 Earth Sciences courses (listed below), plus Earth Sciences 1122, for a total minimum of 19 credit hours for the minor. Some of the required courses have additional pre-requisite courses that are not part of the minor.

The subprogram in environmental studies offers an introduction to the increasingly complex issues and problems affecting Earth’s environment.

To declare this minor, schedule an appointment to meet with the coordinating adviser in the School of Earth Sciences (SES) and discuss the minor requirements. Many of the Earth Sciences courses are taught on a specific course offering schedule and SES wants to help you schedule our classes accordingly. Also, any variation from the program described below needs the approval of the coordinating advisor in SES. For further information about the minor program, contact the coordinating advisor (contact information above).

*Some courses in this minor may have pre-requisites. Please consult the course bulletin before enrolling in courses.

**Preparation for the minor (7–8 hours)**
Earth Sciences 1100 or 1105 or 1108 or 1110 or 1121 or 1151 or 2155 (3 or 4 hours)
Earth Sciences 1122 (4 hours)
Where available, an Honors course can substitute for an equivalent non-Honors course listed above

**Core Course (3 credit hours)**
Complete one of these courses
Earth Sciences 2203 (3 hours)
Earth Sciences 2204 (3 hours)

**Additional courses (at least 9 additional hours are required). At least 3 credit hours must be at or above the 3000-level**
Earth Sciences 2203 or 2204 (if not used as “Core Course”)
Earth Sciences 2206 (3 hours)
Earth Sciences 2210 (3 hours)
Earth Sciences 2212 (4 hours)
Earth Sciences 4450 (3 hours)
Earth Sciences 5206 (3 hours)
Earth Sciences 5550 (4 hours)
Earth Sciences 5189.03, 5189.04, 5189.05, 5189.6 (2 hours)
Earth Sciences 5621 (3 hours)
Earth Sciences 5622 (3 hours)
Earth Sciences 5627 (3 hours)
Earth Sciences 5628 (3 hours)

Earth Sciences 5650 (4 hours)
Earth Sciences 5651 (4 hours)
Earth Sciences 5663 (4 hours)
Earth Sciences 5717 (4 hours)
Earth Sciences 5751 (4 hours)
Earth Sciences 5752 (4 hours)
Earth Sciences 5754 (4 hours)

**Earth Sciences (Environmental Studies subprogram) minor program guidelines**
The following guidelines govern the Environmental Studies subprogram of the Earth Sciences minor:

**Required for graduation**
No

**Credit hours required**
A minimum of 12 credit hrs. 1000 level courses shall not be counted in the minor. At least 3 credit hours must be at or above the 3000-level.

**Transfer and EM credit hours allowed**
A student is permitted to count up to 6 total hours of transfer credit and/or credit by examination.

**Overlap with the GE**
A student is permitted to overlap up to 6 credit hours between the GE and the minor.

**Overlap with the major and additional minor(s)**
* The minor must be in a different subject than the major.
* The minor must contain a minimum of 12 hours distinct from the major and/or additional minor(s).

**Grades required**
* Minimum C- for a course to be listed on the minor.
* Minimum 2.00 cumulative GPA for all minor course work
* Course work graded Pass/Non-Pass cannot count on the minor.
* No more than 3 credit hours of coursework graded Satisfactory/Unsatisfactory may count toward the minor.

**X193 credits**
No more than 3 credit hours.

**Minor approval**
The minor program must be approved by the academic unit offering the minor.

**Filing the minor program form**
The minor program form must be filed at least by the time the graduation application is submitted to a college/school counselor.

**Changing the minor**
Once the minor program is filed in the college office, any changes must be approved by the academic unit offering the minor.