Earth, Life & Time
Exploring the Earth, Evolution and Humanity
http://www.geol.umd.edu/~jmerck/eltsite/

The Science of Nature; The Nature of Science

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Earth, Life & Time is a Scholars program about the scientific understanding and appreciation of the natural world, and how that understanding aids us as individuals and as a society. ELT is designed with students in all majors in mind; all of us live in a world where the forces of nature and the products of science impact our lives and our futures.

In particular ELT students study:

- The Scientific Method and Critical Thinking Skills
- The Methods and Perspectives of Natural Historical Sciences
- The Interaction of Natural Sciences and Society
- Information Technology and the Diffusion of Knowledge

ELT students discover aspects of these topics through a number of different means:

- Innovative Teaching Techniques in an Interdisciplinary Colloquium
- Off-Campus Experiences, including:
  - Local Sites of Natural Historical Interest
  - Museums in the Washington, D.C. region and Beyond
  - Sponsored Field Natural History Courses (including trips to Arizona and the Galápagos)
- Hands-On Development of Information Technology Skills, including:
  - Designing and maintaining a personal academic website
  - Use of Vector and Raster graphics
- Individual Internship and Research Experiences
- Shared Living Opportunities with Other Students in Your Program
Earth, Life & Time Courses

Colloquium (CPSP 118G and 218G)
The Colloquium is a 1-credit class that meets once a week, taken in your first three semesters in the program (CPSP 118G in the freshman year; CPSP 218G in the sophomore year). The Colloquium serves several functions. It represents the one time a week that all the ELT students of your year meet with the faculty. It serves as a class to introduce the academic topics of the program. It is also the means through which the various field trips are run.

Each semester’s Colloquium has a particular focus, but all three add together to form a complete series of courses. The first semester looks at the methods of science in general and the interactions of Science and Society, as well as an introduction to geology and the earth sciences. The second semester examines the power of evolution by natural selection and the natural history of humanity. The third semester explores the impact of the natural world on human society, and vice versa.

ELT Scholars must take all three colloquia classes in order to receive their Citation.

Practicum (CPSP 239G or 249G)
The Practicum is the capstone experience of an ELT Scholar. It is an individual research, internship, or service-learning project done in the fourth semester (Spring semester of Sophomore year) under the mentorship of a supervisor on or off campus. The student is responsible for developing their own project, and (upon completion) presenting their results and experiences at either the Undergraduate Research Day or Scholars Academic Showcase. The credit level (1-3 credits) is determined by the number of on-site hours worked.

All ELT Scholars must do a Practicum in order to receive their Citation.

Other Classes
All ELT Scholars must also take UNIV 100 Introduction to the University (a requirement of many majors on campus) or an equivalent. Additionally, all ELT students must take ENGL 101 (unless exempt), normally in their second semester.

Finally, all ELT Scholars must take one Introductory Natural Historical Science class, and two supporting classes, by the end of their fourth semester. Most of these courses also provide CORE distribution requirements, and many are the introductory courses for various majors.
### Requirement Checklist
for Students Entering Fall 2008

<table>
<thead>
<tr>
<th></th>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>FALL 2008 (Semester 1)</td>
<td><strong>CPSP 118G in Fall '08</strong></td>
<td>1 cr</td>
</tr>
<tr>
<td></td>
<td>CPS 118G in Spring '09</td>
<td>1 cr</td>
</tr>
<tr>
<td></td>
<td>CPS 218G in Fall '09</td>
<td>1 cr</td>
</tr>
<tr>
<td></td>
<td>CPS 239G or 249G (the Practicum) in Spring '10</td>
<td>1-3 cr</td>
</tr>
<tr>
<td></td>
<td>UNIV100 or Equivalent in Fall '08</td>
<td>1-2 cr</td>
</tr>
<tr>
<td></td>
<td>ENGL 101 (pref. ENGL 101S in Spring '09)</td>
<td>3 cr</td>
</tr>
<tr>
<td></td>
<td>List A Class (such as GEOL 100/110 or other INHSC class; see list following) (pref. in Fall '07; but in any case by or during Spring '10)</td>
<td>3-4 cr</td>
</tr>
<tr>
<td></td>
<td>List B Supporting Course 1 (see list following) (by or during Spring '10)</td>
<td>3-4 cr</td>
</tr>
<tr>
<td></td>
<td>List B Supporting Course 2 (see list following) (by or during Spring '10)</td>
<td>3-4 cr</td>
</tr>
</tbody>
</table>

**Total:** 17-23 cr

Citation Requirements in Matrix Format.
Courses in **bold italics** MUST be taken in the semester indicated. ENGL 101 must be taken in Semester I or II. List A and B courses must be completed by the end of Semester IV.

<table>
<thead>
<tr>
<th>REQUIRED COURSES</th>
</tr>
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<tbody>
<tr>
<td>FALL 2008 (Semester 1)</td>
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<tr>
<td><strong>Course</strong></td>
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<tr>
<td>CPSP118G Colloquium</td>
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<tr>
<td>List A Course</td>
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<tr>
<td>(such as GEOL 100/110)</td>
</tr>
<tr>
<td>UNIV100 or equivalent</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>FALL 2009 (Semester 3)</th>
<th>SPRING 2010 (Semester 4)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Course</strong></td>
<td><strong>Credit</strong></td>
</tr>
<tr>
<td>CPSP218G Colloquium</td>
<td>1</td>
</tr>
<tr>
<td>List B Course 2'</td>
<td>3-4</td>
</tr>
</tbody>
</table>

* (if not exempt)
† (if not already completed in an earlier semester)
The Citation in Earth, Life & Time

To earn an Earth, Life & Time (ELT) Scholars Citation, you must model good community citizenship and complete 17-23 credits with a minimum grade point average of 3.0 in Scholars ELT citation courses (including ENGL 101: see checklist on previous page), and a minimum cumulative grade point average of 2.5 in all courses at UM at the end of the two-year period of the Scholars program. If you are exempt from ENGL 101, you must complete 14-20 credits. These credits must be satisfied during the two-year period of the Scholars Program (4 semesters). All students are expected to comply with the University Code of Academic Integrity.

ELT Course List

In this list, the parentheses after the course number and name lists the number of credits and the CORE distribution requirements (if any) this course also fulfills. These abbreviations are:
D Diversity (may also count for some other CORE requirement)
IE Interdisciplinary and Emerging Issues
HA Humanities and the Arts, History or Theory of the Arts
HO Humanities and the Arts, Other
LS Life Sciences, Non-laboratory
PL Physical Sciences, Lab
PS Physical Sciences, Non-lab
SB Behavioral or Social Science
SH Social or Political History

PLEASE NOTE: Not all classes are offered every semester. Additionally, some may have prerequisites. Please check the listings in the Schedule of Classes.

List A: Introductory Natural Historical Science Class (INHSC) List (3-4 credits):

GEOL 100/110 Physical Geology/Physical Geology Lab (4, PL)
GEOL 120 Environmental Geology (3, PS)
GEOL 124 Biogenesis: Making a Habitable Planet (3, PS)
Any other 100 or 200 level GEOL course (3-4)
  ❖ GEOL 102 Historical Geology (4)
  ❖ GEOL 104 Dinosaurs: A Natural History (3, PS)
  ❖ GEOL 210 Gems and Gemstones (3)
  ❖ GEOL 212 Planetary Geology (3, PS)
  ❖ GEOL 214 Global Energy Systems and Resources (3)
ANSC 101 Introduction to Animal Science (3)
ANTH 220 Introduction to Biological Anthropology (4, LL D)
ANTH 240 Introduction to Archaeology (3, SB D)
AOSC/GEOG/GEOL 123 Causes and Implications of Global Change (3, PS)
AOSC 200/201 Weather and Climate/Lab (4, PL) or AOSC 200 Weather and Climate (3, PS)
ASTR 100/111 Introduction to Astronomy/Observational Astronomy Lab (4, PL) or ASTR 100 Introduction to Astronomy (3, PS)
Any other 100 or 200 level ASTR course (3-4)
Any 100 or 200 level BSCI course (3-4)
ENST 105 Soil and Environmental Quality (3, LS)
ENST 200 Fundamentals of Soil Science (4, LL)
GEOG 201/210 Geography of Environmental Systems/Lab (4, PL)
HIST 174 Introduction to the History of Science (3, SH)
HONR 219D Beyond Dinosaurs: Patterns and Enigmas in Vertebrate Evolution (3, PS)
HONR 259C "Fearfully Great Lizards": Topics in Dinosaur Research (3, PS)
PHIL 250 Philosophy of Science I (3, HO)
PHIL 256 Philosophy of Biology I (3, HO)
PHYS 105 Physics for Decision Makers: The Global Energy Crisis (3, PS)
PLSC 101 Introductory Crop Science (4, LL)

List B: Supporting Course List (Total of 6-8 credits):

Any course in List A above
Any one (1) CMSC course (or BMGT 201): however, **ONLY** 1 CMSC course (or BMGT 201) will be counted as a Supporting Course for CPS-ELT
AASP 200 African Civilization (3, HO)
ANSC 211 Anatomy of Domestic Animals (3)
ANSC 212/214 Applied Animal Physiology/Applied Animal Physiology Lab (4)
ANSC 252 Introduction to the Diseases of Wildlife (3)
ANSC 255 Introduction to Aquaculture (3)
ARTH 200 Art of the Western World to 1300 (3, HA)
ARTH 250 Art and Archaeology of Ancient America (3, HA D)
ARTH 275 Art and Archaeology of Africa (3, HA D)
ARTH 290 Art of Asia (3, HA D)
ASTR 220 Collisions in Space (3, PS)
Any 100 or 200 level CHEM course (4-5)
CLAS 170 Greek and Roman Mythology (3, HL)
CPSP 288E/HIST 219E Americans and the Wilderness (3, SH)
ENEE 189W Engineering Issues in Medicine (3, PS)
ENGL 260 Introduction to Folklore (3, SH)
ENGL 277 Mythologies: An Introduction (3, HL D)
ENMA 150 The Materials of Civilization (3, PS)
ENSP 101 Introduction to Environmental Science (3, PS)
GEOG 140 Coastal Environments (3, PS)
GEOL 288 Field Studies I (1-2)
GEOL 301 Evolution in Geology (3, PS)
GEOL 331 Principles of Paleontology (4)
GEOL 388 Field Studies II (3)
GERM 282 Germanic Mythology (3, HL)
GERM 283 Viking Culture and Civilization (3, HL)
GERM 286 Ancient Indic Culture and Civilization (3, HL)
GERM 287 Ancient Celtic Culture and Civilization (3, HL)
HIST 110 The Ancient World (3, HO)
HIST 175 Science and Technology in Western Civilization (3, SH)
LING 240 Language and the Mind (3, HO)
LING 330 Historical Linguistics (3)
PHIL 261 Philosophy of the Environment (3, IE)
Any 100 or 200 level PHYS course (3-4)
PLSC 201 Plant Structure and Function (4)
PLSC 203 Plants, Genes, and Biotechnology (3, LS)
WRLD 235S The Power of Water (3, IE)

http://www.geol.umd.edu/~jmerck/eltsite/requirements.html

List current as of 3 June 2008: TRH
### Schedule for Completion of Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Fall 08</th>
<th>Spring 09</th>
<th>Fall 09</th>
<th>Spring 10</th>
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<tbody>
<tr>
<td>CPSP 118G Freshman Colloquium I</td>
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<td>CPSP 239G or 249G Practicum</td>
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<td>UNIV 100 (or equivalent)</td>
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<td>ENGL 101</td>
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<td>List A Class</td>
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<td>List B Class 1</td>
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<td>List B Class 2</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
</tr>
</tbody>
</table>

**KEY:**
- X = Must be taken that semester
- E = May be taken in either of those two semesters
- A = May be taken in any of those four semesters
Earth, Life & Time

IMPORTANT Early First Semester ELT Dates
AUGUST 29 (Friday)  Service Day (required activity for all incoming Scholars students)
SEPTEMBER 6 (Sunday) Metro Scavenger Hunt (required activity for all incoming ELT students)

First Semester Textbooks
Kida, Thomas E. 2006. Don’t Believe Everything You Think: The 6 Basic Mistakes We Make in Thinking. ISBN: 1591024080

Early First Semester Supplies
(Actually, you’ll probably have packed these anyway, but are listed here as a helpful reminder to have these available before the Thanksgiving Break)

Required/Highly Recommended
Relatively rugged shoes or hiking boots
Shoes/sandals/tivas that you don’t mind getting wet
Sunscreen and sunglasses
Insect repellant
Windbreaker/light jacket

Suggested
Digital camera, camera phone, disposable camera, or film camera