III Type of Program Modification

(e.g. adding a writing course required of all majors.) Please X check the appropriate box.

<table>
<thead>
<tr>
<th>Major</th>
<th>Minor</th>
<th>X</th>
<th>Option</th>
<th>Teaching major/minor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other</td>
<td></td>
<td>Please describe</td>
<td>This is a request to include several field-based courses offered by the Wild Rockies Field Institute as part of the interdisciplinary curriculum in Mountain Studies.</td>
<td></td>
</tr>
</tbody>
</table>

IV Catalog Language

If you are proposing a change to an existing program or major, please cut and paste the requirements as they appear in the current catalog below.  www.umt.edu/catalog | Please provide the proposed copy as you wish it to appear in the catalog. □

Minor in Mountain Studies

Mountain studies is an interdisciplinary field of study focusing on the physical and human dimensions of mountain environments. Coursework in the minor emphasizes physical geography and mountain-society interactions, including a critical analysis of the processes of change and influence shaping local and regional mountain environments today. The minor in mountain studies takes advantage of existing faculty expertise and an array of courses to provide students with a science-based curriculum and global perspective. Students pursuing the minor in mountain studies will develop knowledge and skills appropriate for graduate study and for working with government and non-government agencies and groups. Field-based and international experiences are strongly encouraged.

Minor in Mountain Studies

Mountain studies is an interdisciplinary field of study focusing on the physical and human dimensions of mountain environments. Coursework in the minor emphasizes physical geography and mountain-society interactions, including a critical analysis of the processes of change and influence shaping local and regional mountain environments today. The minor in mountain studies takes advantage of existing faculty expertise and an array of courses to provide students with a science-based curriculum and global perspective. Students pursuing the minor in mountain studies will develop knowledge and skills appropriate for graduate study and for working with government and non-government agencies and groups. Field-based and international experiences are strongly encouraged.
Requirements

In addition to completing the requirements for a major in any discipline, students electing the minor in mountain studies must complete a minimum of 18 additional credits as follows:

1. Six credits must be core courses:
   - GPHY 214 Global Mountain Environments (3 cr.)
   - GPHY 338 Mountains & Society (3 cr.)

2. Six credits must be selected from the following list of region-specific mountain studies courses:
   - BIOO 101N Survey of Montana Wildlife & Habitats (3 cr.)
   - BIOO 335 Rocky Mountain Flora (3 cr.)
   - BIOL 342 Field Ecology (summer field course at the Flathead Lake Biological Station)
   - BIOL 459 Alpine Ecology (summer field course at the Flathead Lake Biological Station)
   - NRSM/GPHY 352 Himalayan Environment and Development (3 cr.)
   - NRSM/GPHY 353 Tourism, Livelihoods and Sustainability in the Himalaya (3 cr.)
   - PTRM/EVST Winter Wilderness Field Studies (3 cr.)
   - GEO 231 Field Methods and Maps (3 cr.)
   - GEO 425 Geology of the Pacific Northwest (3 cr.)
   - GPHY 138 Montana's Mountains (3 cr.)
   - GPHY 344 Crown of the Continent (3 cr.)
   - GPHY 391/EVST 382/RSCN 382 Biogeography of Northwest Montana (3 cr.)
   - GPHY 442 Regionalism and the Rocky Mountain West (3 cr.)
   - GPHY 438 Mountains Field Study (3 cr.)
   - GPHY 444 High Asia (3 cr.)

2. Six credits must be selected from the following list of upper-division advanced mountain studies courses:
   - BIOL 451 Landscape Ecology (field course at the Flathead Lake Biological Station) (3 cr.)
   - FORS 330 Forest Ecology (3 cr.)
   - NRSM 385 Watershed Hydrology (3 cr.)
   - GEO 391 Special Topics (3 cr.)
   - GEO 433 Global Tectonics (3 cr.)
   - GEO 488 Snow, Ice and Climate (3 cr.)
   - GPHY 317 Geomorphology (3 cr.)
   - GPHY 411 Biogeography (3 cr.)
   - GPHY 538 Mountain Studies Seminar (3 cr.)

Requirements

In addition to completing the requirements for a major in any discipline, students electing the minor in mountain studies must complete a minimum of 18 additional credits as follows:

1. Six credits must be core courses:
   - GPHY 214 Global Mountain Environments (3 cr.)
   - GPHY 338 Mountains & Society (3 cr.)

2. Six credits must be selected from the following list of region-specific mountain studies courses:
   - BIOO 101N Survey of Montana Wildlife & Habitats (3 cr.)
   - BIOO 335 Rocky Mountain Flora (3 cr.)
   - BIOL 342 Field Ecology (summer field course at the Flathead Lake Biological Station)
   - BIOL 459 Alpine Ecology (summer field course at the Flathead Lake Biological Station)
   - NRSM/GPHY 352 Himalayan Environment and Development (3 cr.)
   - NRSM/GPHY 353 Tourism, Livelihoods and Sustainability in the Himalaya (3 cr.)
   - PTRM/EVST Winter Wilderness Field Studies (3 cr.)
   - GEO 231 Field Methods and Maps (3 cr.)
   - GEO 425 Geology of the Pacific Northwest (3 cr.)
   - GPHY 138 Montana's Mountains (3 cr.)
   - GPHY 344 Crown of the Continent (3 cr.)
   - GPHY 391/EVST 382/RSCN 382 Biogeography of Northwest Montana (3 cr.)
   - GPHY 442 Regionalism and the Rocky Mountain West (3 cr.)
   - GPHY 438 Mountains Field Study (3 cr.)
   - GPHY 444 High Asia (3 cr.)
2. **Six credits** must be selected from the following list of upper-division advanced mountain studies courses:

- BIOL 451 Landscape Ecology (field course at the Flathead Lake Biological Station) (3 cr.)
- FORS 330 Forest Ecology (3 cr.)
- NRSM 385 Watershed Hydrology (3 cr.)
- GEO 391 Special Topics (3 cr.)
- GEO 433 Global Tectonics (3 cr.)
- GEO 488 Snow, Ice and Climate (3 cr.)
- GPHY 317 Geomorphology (3 cr.)
- GPHY 411 Biogeography (3 cr.)
- GPHY 538 Mountain Studies Seminar (3 cr.) – a 3.0 GPA is required
- NAS 351: Traditional Ecological Knowledge in Action (3 cr.)
- Natural Resource Science & Management 311: Field Studies in Ecological and Human Communities; Section: Conservation Biology in the Northern Rockies (3 cr.)

Please **explain/justify** the new proposal or change.

In the first year of this Minor (officially approved by the BOR September 2008), there has been enthusiastic support from UM students, with over two dozen students currently enrolled in the program. We propose to enhance the curriculum in the areas “region-specific mountain studies courses” and “advanced mountain studies courses” in order to emphasize and deepen coursework and in-depth experiential learning about particular mountain environments and mountain-society contexts. Here, we are adding five courses in total from the Wild Rockies Summer Semester that are taught through the Wild Rockies Field Institute. These additional courses include 3 courses added to the “region-specific” category and proposing to add 2 courses to the “advanced mountain studies” courses. The Co-Directors of this Minor have worked closely with the Wild Rockies Field Institute to review and approve these additions to the curriculum proposed herein and the inclusion of these additional courses that emphasize scientific concepts and theory as they apply to the study of mountainous regions and the socio-economic development trajectories of mountainous areas.

What other programs are affected by your proposal? Obtain signatures as requested above.

**VI Copies and Electronic Submission**

Once approved, the original, a paper copy and an electronic file are submitted to the Faculty Senate Office, UH 221 (camie.moss@mso.umt.edu)

**VI Department Summary** Required if several proposals are submitted. In a separate document list program title and proposed change of all proposals.