The items listed below (approved by Faculty Senate) will be considered to have the necessary faculty approval unless a petition requesting further consideration of these items is signed by five faculty members and submitted to the chair of the Faculty Senate within 14 calendar days after the date of circulation. As a rule, if no petition is received within 14 days, or by April 2, 2010, (21 days in this case due to spring break) the report will be submitted to the president for approval and transmittal to the regents, if regents' action is required. If a petition is received, the report will be referred to the Faculty Senate. On referred items, Faculty Senate may: (1) affirm the action and report it to a meeting of the university faculty, (2) amend the action and report it to a meeting of the university faculty, or (3) rescind the action.

The following items will be presented in the policy report that begins immediately below:

**UCC Catalog Changes:**

- **FS-10-028:** UCC-10-036 – Discontinue BS Special Education
- **FS-10-029:** UCC-10-004 – Regulation J-3-d
- **FS-10-030:** UCC-10-050 – Environmental Science New Option
- **FS-10-031:** UCC-10-051 – Graduate Admissions Change - GPA & TOEFL
- **FS-10-032:** UCC-10-057 – Re-Organization of CNR
IDAHO STATE BOARD OF EDUCATION
ACADEMIC/PROFESSIONAL-TECHNICAL EDUCATION
NOTICE OF INTENT
To initiate a
New, Expanded, Cooperative, Discontinued, program component or Off-Campus Instructional Program or Instructional/Research Unit

Institution Submitting Proposal: University of Idaho
Name of College, School, or Division: College of Education
Name of Department(s) or Area(s): Curriculum & Instruction

Indicate if this Notice of Intent (NOI) is for an Academic or Professional Technical Program
Academic X Professional - Technical 

A New, Expanded, Cooperative, Contract, or Off-Campus Instructional Program or Administrative/Research Unit (circle one) leading to:
Discontinue the Bachelor of Science in Education (B.S.Ed.) major in Special Education (Degree or Certificate)

Proposed Starting Date: Summer 2010

For New Programs:

Program (i.e., degree) Title & CIP 2000

For Other Activity:

Program Component (major/minor/option/emphasis)
Off-Campus Activity/Resident Center
Instructional/Research Unit
Addition/Expansion
Discontinuance/consolidation
Contract Program
Other

Dean’s signature on file 10/25/09
College Dean (Institution) Date
Chief Fiscal Officer (Institution) Date
Chief Academic Officer (Institution) Date
President Date

VP Research & Graduate Studies Date
State Administrator, SDPTE Date
Chief Academic Officer, OSBE Date
SBOE/OSBE Approval Date

Revised 8/9/06
Before completing this form, refer to Board Policy Section III.G. Program Approval and Discontinuance.

1. Briefly describe the nature of the request e.g., is this a new program (degree, program, or certificate) or program component (e.g., new, discontinued, modified, addition to an existing program or option).

The request is to discontinue the B.S.Ed in Special Education and offer a 5th year Master of Education (M.Ed. in Special Education) and institutional recommendation for the Standard Exceptional Child Certificate with Generalist K-12 Endorsement.

2. Provide a statement of need for program or a program modification. Include student and state need, demand, and employment potential. **Attach a Scope and Sequence, SDPTE Form Attachment B, for professional-technical education requests.** (Use additional sheets if necessary.).

The 5th Year Special Education Program offers a unique program culminating in an undergraduate degree and recommendation for certification in either elementary or secondary education plus a Master’s Degree and recommendation for the Standard Exceptional Child Certificate with Generalist K-12 Endorsement. The program can be completed in five years. It is designed for students who want to become teachers in Special Education and general education. Since graduates are eligible for dual certification and complete multiple degrees, their professional employment options should be far richer than those available to graduates who complete a single certification program in elementary or secondary education. **The proposed 5th Year Special Education Program can also be completed all online, reaching out to inservice teachers across Idaho and the United States.**

3. Briefly describe how the institution will ensure the quality of the program (e.g., accreditation, professional societies, licensing boards, etc.).

The program can be completed in five years and can be delivered all online. Students will first study elementary or secondary education at the undergraduate level and special education at the graduate level. During the first three years, students complete their general education requirements, including the major requirements for either elementary or secondary education. They also enroll in additional courses that provide background for teaching special education. And, students complete initial coursework in the special education content area (approximately 9 credits). Throughout the program, students complete several early field experiences in the schools and complete a full year of internship. Students complete their first semester of internship, in either elementary or secondary education, during the fourth year, prior to beginning their graduate course work. During the fifth year students complete graduate coursework and their second teaching internship in special education. At the same time, they work on their research project. When all coursework, internships and their research project are successfully completed, graduates enter schools as some of the best educated special educators in the country. This program will be NCATE and state accredited.

All current special education majors have been informed that they must complete the courses for B.S.Ed. and recommendation for certification this year or wait until the 5th year masters program is in place. Some majors will need to complete their Internship the following year. Entering first-year students have been advised of the 5th year masters and certification program and have been given a draft description of the program and coursework. As they will need either an elementary or secondary general education teaching certificate, first, they have been advised to begin their coursework in either of those two programs upon admission to the University of Idaho.

4. Identify similar programs offered within the state of Idaho or in the region by other colleges/universities. If the proposed request is similar to another program, provide a rationale for the duplication. This may not apply to PTE programs if workforce needs within the respective region have been established.
This would be the only 5th Year Special Education Program in the state.

Enrollment and Graduates (i.e., number of majors or other relevant data)
By Institution for the Proposed Program
Last three years beginning with the current year and the 2 previous years

<table>
<thead>
<tr>
<th>Institution</th>
<th>Relevant Enrollment Data</th>
<th>Number of Graduates</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Current</td>
<td>Previous Year</td>
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Degrees offered by school/college or program(s) within disciplinary area under review

<table>
<thead>
<tr>
<th>Institution and Degree name</th>
<th>Level</th>
<th>Specializations within the discipline (to reflect a national perspective)</th>
<th>Specializations offered within the degree at the institution</th>
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<td>UI</td>
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5. Describe how this request is consistent with the State Board of Education's policy or role and mission of the institution. (i.e., centrality).

The 5th Year Special Education Program will prepare special educators and simultaneously general educators who will help “improve the education system to a level of effectiveness that allows all learners to develop their full potential as individuals and contributors to society.” The program provides a unique educational and training program that meets “the personal and professional needs of Idaho citizens and Idaho employers.”

6. Is the proposed program in the 8-year Plan? Indicate below.

   Yes ____  No ____
If not on 8-year plan, provide a justification for adding the program.
8. Resources--Faculty/Staff/Space Needs/Capital Outlay. (Use additional sheets if necessary.):

<table>
<thead>
<tr>
<th>Estimated Fiscal Impact</th>
<th>FY 09</th>
<th>FY 10</th>
<th>FY 11</th>
<th>Total</th>
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<td>4. Facilities</td>
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</table>

| **B. Source of Funds**  | $0    | $0    | $0    | $0    |
| 1. Appropriated-reallocation | $0    | $0    | $0    | $0    |
| 2. Appropriated – New   | $0    | $0    | $0    | $0    |
| 3. Federal              | $0    | $0    | $0    | $0    |
| 4. Other:               | $0    | $0    | $0    | $0    |
| **TOTAL:**              | $0    | $0    | $0    | $0    |

| **B. Nature of Funds**  | $0    | $0    | $0    | $0    |
| 1. Recurring *          | $0    | $0    | $0    | $0    |
| 2. Non-recurring **     | $0    | $0    | $0    | $0    |
| **TOTAL:**              | $0    | $0    | $0    | $0    |

* Recurring is defined as ongoing operating budget for the program, which will become of the base.
** Non-recurring is defined as one-time funding in a fiscal year and not part of the base.
**TO:** University Curriculum Committee  
**FROM:** University Committee for General Education  
**RE:** Proposed Change Regulation J-3-d [Effective: Summer 2010]  
**DATE:** October 27, 2009

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**J-3-d. General Core Studies (18 cr):** Within the requirements below, students must complete at least one upper division course, and must complete courses from at least three different disciplines. Core Discovery courses may not be counted towards the three discipline requirement.

1. **Core Discovery (7 cr):** One course from CORE 103-149 (open to freshmen only) and one course from CORE 153-199 (open to freshmen and sophomores only).

2. **Humanities (3 cr):** One course chosen from the approved humanities courses listed below.

3. **Social Sciences (3 cr):** One course chosen from the approved social science courses listed below.

4. **International Course:** One course chosen from the approved international courses listed below. Students are required to complete one International course. If a student takes a Core Discovery, Humanities or Social Science course that also appears on the list of approved International courses then this requirement is considered to be completed. This requirement may be waived if a student successfully completes an approved Summer, Fall, or Spring term abroad through the International Programs Office.

5. **Additional Course(s) (2-5 cr):** Additional coursework to total 18 credits chosen from the approved capstone, humanities, social sciences, or international courses listed below.

Approved Humanities Courses:

- AmSt 301 Studies in American Culture (3 cr)
- Art 100 World Art and Culture (3 cr)
- Art 202 Early Modern Art and Aesthetics (3 cr)
- Art 205 Visual Culture (3 cr)
- Art 213 History and Theory of Modern Design I (3 cr)
- Art 302 Modern Art and Theory (3 cr)
- Art 382 History of Photography (3 cr)
- Art 407 New Media (3 cr)
- Dan 100 Dance in Society (3 cr)
- Engl 175 Introduction to Literary Genres (3 cr)
- Engl 257 Literature of Western Civilization (3 cr)
- Engl 258 Literature of Western Civilization (3 cr)
- Engl 342 Survey of British Literature (3 cr)
- Engl 344 Survey of American Literature (3 cr)
- Engl 345 Shakespeare (3 cr)
- Engl 375 The Bible as Literature (3 cr)
- Engl 481 Women's Literature (3 cr)
- Engl 484 American Indian Literature (3 cr)
- FLEN 313 Modern French Literature in Translation (3 cr)
- FLEN 315 French Cinema (3 cr)
- FLEN 324 German Literature in Translation (3 cr)
- FLEN 363 Literature of Ancient Greece and Rome (3 cr)
- FLEN 364 Literature of Ancient Greece and Rome (3 cr)
- FLEN 394 Latin American Literature in Translation (3 cr)
- FLEN 420 International Cinema and National Literatures (3 cr)
- IS 370 Africa’s Calling: The Culture of Ghana (3 cr)
- MusH 101 Survey of Music (3 cr)
- MusH 201 History of Rock and Roll (3 cr)
- Phil 103 Ethics (3 cr)
- Phil 201 Critical Thinking (3 cr)
- Phil 240 Belief and Reality (3 cr)
- Phil 351 Philosophy of Science (3 cr)
- Phil 361 Professional Ethics (3 cr)
The 101  Introduction to the Theatre (3 cr)
The 468  Theatre History I (3 cr)
The 469  Theatre History II (3 cr)
WmSt 201 Women, Culture, and Society: Introduction to Women's Studies (3 cr)

Approved Social Science Courses:
AmSt 201  Introduction to Ethnic Studies (3 cr)
Anth 220 Peoples of the World (3 cr)
Anth 329 North American Indians (3 cr)
Comm 233 Interpersonal Communication (3 cr)
Comm 331 Conflict Management (3 cr)
Comm 335 Intercultural Communication (3 cr)
Econ 201 Principles of Economics (3 cr)
Econ 202 Principles of Economics (3 cr)
Econ 272 Foundations of Economic Analysis (4 cr)

Approved International Courses:
AgEc 481 Agricultural Markets in a Global Economy (3 cr)
AgEd 406 Exploring International Agriculture (2 cr)
Anth 220 Peoples of the World (3 cr)
Anth 261 Language and Culture (3 cr)
Anth 462 Human Issues in International Development (3 cr)
Art 202 Early Modern Art and Aesthetics (3 cr)
Art 208 Italian Renaissance Art and Culture (3 cr)
Art 213 History and Theory of Modern Design I (3 cr)
Art 302 Modern Art and Theory (3 cr)
Art 402 Contemporary Art and Theory (3 cr)
Art 413 History and Theory of Modern Design II (3 cr)
Chin 201 Chinese Third Semester (4 cr)
Chin 202 Chinese Fourth Semester (4 cr)
Comm 335 Intercultural Communication (3 cr)
CORE 107 Cultural Encounters: The Latino Story (4 cr)
CORE 113 Globalization (4 cr)
CORE 116 The Sacred Journey: Religions of the World (4 cr)
CORE 117 The Movies, The World, and You (4 cr)
CORE 127 War and Our World (4 cr)
CORE 157 Cultural Encounters: The Latino Story (3 cr)
CORE 163 Globalization (3 cr)
CORE 166 The Sacred Journey: Religions of the World (3 cr)
CORE 167 The Movies, The World, and You (3 cr)
CORE 177 War and Our World (3 cr)
CORE 446 International Economics (3 cr)
Econ 447 Economics of Developing Countries (3 cr)
Engl 481 Women's Literature (3 cr)
FCS 411 Global Nutrition (2 cr)
<table>
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<tr>
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<th>Course Title</th>
<th>Credits</th>
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<td>FCS 419</td>
<td>Dress and Culture (3 cr)</td>
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<td>FLEN 307</td>
<td>The European Union (3 cr)</td>
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<td>FLEN 315</td>
<td>French Cinema (3 cr)</td>
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<td>FLEN 324</td>
<td>German Literature in Translation (3 cr)</td>
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<td>FLEN 391</td>
<td>Hispanic Film (3 cr)</td>
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<td>FLEN 392</td>
<td>Contemporary European Fiction Film (3 cr)</td>
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<td>FLEN 394</td>
<td>Latin American Literature in Translation (3 cr)</td>
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<td>FLEN 420</td>
<td>International Cinema and National Literatures (3 cr)</td>
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<td>FLEN 421</td>
<td>Women in Cinema: The International Scene (3 cr)</td>
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<td>Fren 201</td>
<td>Intermediate French I (4 cr)</td>
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<td>Fren 202</td>
<td>Intermediate French II (4 cr)</td>
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<tr>
<td>Geog 165</td>
<td>Human Geography (3 cr)</td>
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<td>Geog 200</td>
<td>World Regional Geography (3 cr)</td>
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<td>Geog 350</td>
<td>Geography of Development (3-4 cr)</td>
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<td>Geog 360</td>
<td>Population Dynamics and Distribution (3-4 cr)</td>
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<td>Geog 365</td>
<td>Political Geography (3 cr)</td>
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<td>Germ 201</td>
<td>Intermediate German I (4 cr)</td>
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<td>Japn 201</td>
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<td>Japn 202</td>
<td>Intermediate Japanese II (4 cr)</td>
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<td>LArc 390</td>
<td>Italian Hill Towns and Urban Centers (3 cr)</td>
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<td>PolS 205</td>
<td>Introduction to Comparative Politics (3 cr)</td>
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<td>Russ 201</td>
<td>Third Semester Russian (4 cr)</td>
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<td>The 221</td>
<td>History of World Cinema I (3 cr)</td>
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<tr>
<td>The 222</td>
<td>History of World Cinema II (3 cr)</td>
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<td>The 467</td>
<td>Asian Theatre History (3 cr)</td>
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</tbody>
</table>

Approved Capstone Courses:

- AgEc 478  Advanced Agribusiness Management (3 cr)
- Art 490  BFA Art/Design Studio (6 cr, max 12)
- Art 491  Information Design (3 cr, max 9)
- Art 495  BFA Senior Thesis (2 cr, max 4)
- BAE 478  Engineering Design I (3 cr)
- BAE 479  Engineering Design II (3 cr)
- Bus 490  Strategic Management (3 cr)
- CE 493  Senior Design Project (1-3 cr, max 4 cr)
- CE 494  Senior Design Project (1-3 cr, max 4 cr)
- ChE 452  Environmental Management and Design (3 cr, max arr)
- ChE 454  or MSE 454  Chemical Process Analysis and Design II (3 cr)
- ECE 481  EE Senior Design II (3 cr)
- ECE 483  Computer Engineering Senior Design II (3 cr)
- EnvS 497  Senior Research and Thesis (3 cr)
- ForP 495  Product and Process Development and Commercialization (3 cr)
- IS 495  International Studies Senior Seminar (3 cr)
- LArc 480  The Emerging Landscape (3 cr)
- ME 424  Mechanical Systems Design I (3 cr)
- ME 426  Mechanical Systems Design II (3 cr)
IDAHO STATE BOARD OF EDUCATION
ACADEMIC/PROFESSIONAL-TECHNICAL EDUCATION
NOTICE OF INTENT
To initiate a
New, Expanded, Cooperative, Discontinued, program component or Off-Campus Instructional Program or Instructional/Research Unit

Institution Submitting Proposal: University of Idaho
Name of College, School, or Division: College of Letters, Arts and Social Sciences
Name of Department(s) or Area(s): Environmental Science Program

Indicate if this Notice of Intent (NOI) is for an Academic or Professional Technical Program
Academic X Professional - Technical

This is a New, Expanded, Cooperative, Contract, or Off-Campus Instructional Program, or Administrative/Research Unit (circle one) leading to:
[New option in the B.S. Env.S. called Physical Science 2 Option in Environmental Science (Degree or Certificate)]

Proposed Starting Date: August 2010

For New Programs:

Program (i.e., degree) Title & CIP 2000 X Program Component (major/minor(option/emphasis)

For Other Activity:

☐ Off-Campus Activity/Resident Center
☐ Instructional/Research Unit
☐ Addition/Expansion
☐ Discontinuance/consolidation
☐ Contract Program
☐ Other

Dean’s signature on file 10/19/09

College Dean (Institution) Date

Chief Fiscal Officer (Institution) Date

Chief Academic Officer (Institution) Date

President Date

VP Research & Graduate Studies Date

State Administrator, SDPTE Date

Chief Academic Officer, OSBE Date

SBOE/OSBE Approval Date

Revised 12/10/08
Page 1
Before completing this form, refer to Board Policy Section III.G., Program Approval and Discontinuance.

1. Briefly describe the nature of the request e.g., is this a new program (degree, program, or certificate) or program component (e.g., new, discontinued, modified, addition to an existing program or option).

This is a request to formally approve the option area for the B.S. in Environmental Science that is offered exclusively in Idaho Falls. Since the approval of the B.S. EnvS degree in Idaho Falls in 1998, we have implemented a variation of the physical science option area curriculum and have used internal substitution/waiver forms as needed to show degree completion. Many UI courses in the Moscow curriculum for the physical science option are not available in Idaho Falls while other courses are available and taught by UI faculty in Idaho Falls or taught by ISU. This has required a significant number of substitution/waiver forms with associated faculty and staff effort. In addition, the computerized degree audit system currently used at UI has limited usefulness to faculty, staff and students in Idaho Falls if all substitutions and waivers have not been processed.

This NOI requests that the curriculum, as it is currently implemented in Idaho Falls, be recognized as an official option area to be known as the B.S. Environmental Science Physical Science 2 option (Idaho Falls).

2. Provide a statement of need for program or a program modification. Include student and state need, demand, and employment potential. Attach a Scope and Sequence, SDPTE Form Attachment B, for professional-technical education requests. (Use additional sheets if necessary.).

Since the degree was approved and implemented in Idaho Falls, 18 students have graduated with the degree; the program currently has 19 students enrolled. Fall 2009 saw a record number of students (9) enter the program in Idaho Falls. Graduates of the program have gone on to work for the Department of Energy, Battelle Energy Alliance, CH2MHill, the Department of Environmental Quality and other local employers. In addition, a number of students have chosen to continue their education at the graduate level, generally while employed.

3. Briefly describe how the institution will ensure the quality of the program (e.g., accreditation, professional societies, licensing boards, etc.).

The learning outcomes and learning outcome assessment plans in place for the B.S. in Environmental Science apply also to Idaho Falls. The key courses in that assessment, EnvS 101, 102, 225 and 497 have not changed and will continue to be taught by Moscow faculty or the UI faculty member in Idaho Falls and are used to assess program quality and suggest improvements.

4. Identify similar programs offered within the state of Idaho or in the region by other colleges/universities. If the proposed request is similar to another program, provide a rationale for the duplication. This may not apply to PTE programs if workforce needs within the respective region have been established.

The B.S. in Environmental Science is not a duplication of any existing degrees and it precedes the degrees that have been approved at ISU and BSU. Idaho State has a B.S. and B.A. in Earth and Environmental Systems with tracks in Environmental Geochemistry, Environmental Health, Environmental Policy and Management and Global Environmental Change. Boise State has a BA in
Environmental Studies and a BS in Environmental and Occupational Health. These degree programs have all been in place for years and do not duplicate each other but collectively satisfy the need for environmental education in Idaho. In Idaho Falls, UI and ISU collaborate to use classes from both Universities to offer a rich variety of programs including the B.S. in Environmental Science.

Enrollment and Graduates (i.e., number of majors or other relevant data)
By Institution for the Proposed Program
Last three years beginning with the current year and the 2 previous years

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Degrees offered by school/college or program(s) within disciplinary area under review

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<tr>
<td>BSU Environmental Studies</td>
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<tr>
<td>BSU Environmental and Occupational Health</td>
<td>BS</td>
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<td>EITC</td>
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<tr>
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<td>BA</td>
<td>Environmental Geochemistry, Environmental Health, Environmental Policy and Management, and Global Environmental Change.</td>
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<td>UI</td>
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</tbody>
</table>

5. Describe how this request is consistent with the State Board of Education's policy or role and mission of the institution. (i.e., centrality).

The University of Idaho is a high research activity, land-grant institution committed to undergraduate and graduate-research education with primary emphasis on, among other areas, natural resources. The University of Idaho gives continuing emphasis in the areas of liberal arts and physical, life, and social sciences, which also provide the core curriculum or general education portion of the curriculum. The institution serves students, business and industry, the professions and public sector groups throughout the state and nation as well as diverse and special constituencies.

This request is consistent with the role and mission of the University of Idaho as it provides high quality undergraduate education in environmental science and natural resources in Southeast Idaho.

6. Is the proposed program in the 8-year Plan? Indicate below.

   Yes  ___  No  ____

   If not on 8-year plan, provide a justification for adding the program.
8. Resources--Faculty/Staff/Space Needs/Capital Outlay. (Use additional sheets if necessary):

No new resources will be required as this degree has been offered in Idaho Falls since 1998. This change formalizes the curriculum as it currently exists. In fact, faculty and staff time will be saved by implementing this change as the number of substitution/waiver forms required will be significantly reduced. In addition, the computerized degree audit system currently used at UI will be much more useful to faculty, staff and students in Idaho Falls saving time and confusion.

<table>
<thead>
<tr>
<th>Estimated Fiscal Impact</th>
<th>FY</th>
<th>FY</th>
<th>FY</th>
<th>Total</th>
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<td><strong>A. Expenditures</strong></td>
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<td>1. Personnel</td>
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<td>2. Operating</td>
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<td>3. Capital Outlay</td>
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<td>4. Facilities</td>
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<tr>
<td><strong>TOTAL:</strong></td>
<td></td>
<td></td>
<td></td>
<td>$0</td>
</tr>
</tbody>
</table>

| **B. Source of Funds** |     |     |     |       |
| 1. Appropriated-       |     |     |     |       |
| reallocation          |     |     |     |       |
| 2. Appropriated – New |     |     |     |       |
| 3. Federal            |     |     |     |       |
| 4. Other:             |     |     |     |       |
| **TOTAL:**             |     |     |     |       |

| **B. Nature of Funds** |     |     |     |       |
| 1. Recurring *         |     |     |     |       |
| 2. Non-recurring **    |     |     |     |       |
| **TOTAL:**             |     |     |     | $0    |

* Recurring is defined as ongoing operating budget for the program, which will become of the base. **Non-recurring is defined as one-time funding in a fiscal year and not part of the base.
<table>
<thead>
<tr>
<th>Required Courses</th>
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<tbody>
<tr>
<td>Biol 115 Cells &amp; the Evolution of Life</td>
<td>4</td>
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<tr>
<td>Chem 111 Principles of Chemistry I</td>
<td>4-5</td>
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<tr>
<td>Chem 112 Principles of Chemistry II</td>
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<tr>
<td>Comm 101 Fundamentals of Public Speaking or Foreign Language</td>
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<td></td>
<td>4</td>
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<td>Engl 102 College Writing &amp; Rhetoric</td>
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<tr>
<td>Engl 317 Technical Writing</td>
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<tr>
<td>EnvS 101 Intro to Environmental Science</td>
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<tr>
<td>EnvS 102 Field Activities</td>
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<tr>
<td>EnvS 225 Int. Environ. Issues Seminar</td>
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<tr>
<td>EnvS 400 or EnvS or Hydro 501 Seminar</td>
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<tr>
<td>EnvS 497 Senior Research and Thesis</td>
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<tr>
<td>Geog 100 Physical Geography or Geol 101 Physical Geology</td>
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<tr>
<td>Phys 111 General Physics I</td>
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<tr>
<td>Math170 Analytic Geometry/Calc I or MATH 160 Survey of Calculus</td>
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<tr>
<td>Phil 452 Environmental Philosophy</td>
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<tr>
<td>Stat 251 Principles of Statistics or Stat 301 Probability &amp; Statistics</td>
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<tr>
<td>Humanities – 6 credits from UI core</td>
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<tr>
<td>Phil 452 Environmental Philosophy</td>
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<tr>
<td>(Arts, Phil, Lit, Music, Drama/Theatre/Foreign Language)</td>
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<tr>
<td>Social Science – 6 credits from UI core</td>
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<td>(Psych, Soc, Anthropology, Geography, Econ, History, Pols)</td>
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<td>Breadth Electives</td>
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<tr>
<td>(1) Ecology</td>
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<tr>
<td>For 221 Nat Resources Ecology</td>
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<tr>
<td>(2) Natural Resource Economics &amp; Sociology</td>
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<tr>
<td>Anth 220 Peoples of the World</td>
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<tr>
<td>PTTE 410 Technology and Society</td>
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<tr>
<td>(3) Management</td>
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<tr>
<td>ChE 470 Hazardous Waste Management</td>
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<tr>
<td>For 462 Watershed Science &amp; Mgmt.</td>
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<tr>
<td>EnvS 479 Intro to Environmental Regulations</td>
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<tr>
<td>For 426 Wildland Fire Ecology and Management</td>
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<td>Geog 424 Hydrologic Apps of GIS and Remote Sensing</td>
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<td>(4) History, Philosophy &amp; Pol. Science:</td>
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<tr>
<td>PolS 364</td>
<td>Pol of the Environment</td>
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<tr>
<td>Geog 364</td>
<td>Idaho and the Pacific Northwest</td>
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<tr>
<td>Phil 365</td>
<td>Biomedical Ethics</td>
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<tr>
<td>Hist 423</td>
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<td>Chem 418</td>
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<td><strong>EnvS 428 Pollution Prevention</strong></td>
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<td>Envs 429</td>
<td>Env Auditing</td>
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<tr>
<td><strong>EnvS 479 Intro to Env Regulations</strong></td>
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<tr>
<td>Envs 498</td>
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<tr>
<td>Geog 385</td>
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<tr>
<td>Geog 475</td>
<td>Geog Info Sys</td>
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<tr>
<td>NR 402</td>
<td>GIS Applications in Natural Resources</td>
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<tr>
<td>REM 407</td>
<td>GIS Applications in Fire Ecology and Man</td>
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<td>Soils 205</td>
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<td>Geol 323</td>
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<td>REM 560</td>
<td>Plant Ecophysiology</td>
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<td>For 472</td>
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<td>Wildland Restoration Ecology</td>
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<td>REM 459</td>
<td>Rangeland Ecology</td>
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<td><strong>Depth Electives</strong></td>
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<td>Water</td>
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<td>BAE 450</td>
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<td>For 462</td>
<td>Watershed Science &amp; Mgt</td>
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<tr>
<td>Geol 309</td>
<td>Ground Water</td>
</tr>
<tr>
<td>Geol 464</td>
<td>Geochem of Natural Waters</td>
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<td>CE 433</td>
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<td>Hydr 414</td>
<td>Ground Water-Surface Water Interaction</td>
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<td>Planning and Decision Making for Watershed Management</td>
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<td>Fish 540</td>
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<td>Chem 454</td>
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<td>Chem 418</td>
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<td>FST 409</td>
<td>Prin of Env Tox</td>
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<tr>
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<tr>
<td>ChE J470/J570</td>
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<td>ChE J480/J580</td>
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<td>FST 364</td>
<td>Hazardous Materials</td>
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<tr>
<td>Math 175</td>
<td>Analytic Geometry/Calc II</td>
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<td>Math 310</td>
<td>Ord Differential Equat</td>
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<tr>
<td>Math 330</td>
<td>Linear Algebra</td>
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<tr>
<td>Economics and Management (at least 4)</td>
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<td>EnvS 428</td>
<td>Pollution Prevention</td>
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<td>Geog 385</td>
<td>GIS Primer</td>
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<td>Geog 475</td>
<td>Geog Info Sys</td>
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<td>Geog 450</td>
<td>Global Environmental Change</td>
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<tr>
<td>Geog 424</td>
<td>Hydrologic Apps of GIS and Remote Sensing</td>
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<tr>
<td>Environmental Policy &amp; Regulations (at least 4)</td>
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<td>EnvS 429</td>
<td>Environmental Auditing</td>
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<td>EnvS 479</td>
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<tr>
<td>EnvS 482</td>
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<td>EnvS 580</td>
<td>Environmental Law &amp; Regulation</td>
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<tr>
<td>CSS 572</td>
<td>Human Dimen. Of Restoration Ecology</td>
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</table>
ENVIRONMENTAL SCIENCE (B.S.Env.S.)

Required course work includes the university requirements (see regulation J-3), the general requirements for the B.S. degree, and:

- Biol 115  Cells and the Evolution of Life (4 cr)
- Chem 111  Principles of Chemistry I (students in social science option may substitute Chem 101) (4 cr)
- Comm 101  Fundamentals of Public Speaking or 3-4 cr in foreign language courses (2-4 cr)
- EnvS 101  Introduction to Environmental Science (3 cr)
- EnvS 102  Field Activities in Environmental Sciences (1 cr)
- EnvS 225  International Environmental Issues Seminar (3 cr)
- EnvS 400  Seminar (1 cr)
- EnvS 497  Senior Research and Thesis (3 cr)
- Phil 452  Environmental Philosophy (3 cr)
- Stat 251  Statistical Methods (students in physical science 2 option may substitute Stat 301) (3 cr)

Advisor-directed breadth electives, incl at least one course from the first four areas (24 cr):

Ecology
- Biol 314  Ecology and Population Biology (4 cr)
- Geog 310  Biogeography (2-3 cr)
- MMBB 425  Microbial Ecology (3 cr)
- REM 221  Ecology (3 cr)

Natural Resource Economics and Sociology
- AgEc 451  Applied Environmental and Natural Resource Economics (3 cr)
- Anth 220  Peoples of the World (3 cr)
-CSS 383  Resource Economics for Environmental Policymaking (3 cr)
- Econ 385  Environmental Economics (3 cr)
- For 235  Society and Natural Resources (3 cr)

Management
- CHE 470 or EnvS 445  Hazardous Waste Management (3 cr)
- CSS 486  Public Involvement in Natural Resource Mgt (3 cr)
- For 484  Forest Policy and Administration (2 cr)
- Geog 427  Spatial Multicriteria Analysis and Optimization (3 cr)
- Geog 444  Environmental Assessment (4 cr)

History, Philosophy, and Political Science
- AgEc 477  Law, Ethics, and the Environment (3 cr)
- CSS 489  Personalities and Philosophies in Conservation (2 cr)
- Hist 424  American Environmental History (3 cr)
- Phil 351  Philosophy of Science (3 cr)
- Phil 417  Philosophy of Biology (3 cr)
- PolS 364  Politics of the Environment (3 cr)

Technical
- Biol 213  Principles of Biological Structure and Function (4 cr)
- Chem 253  Quantitative Analysis (5 cr)
- Chem 275  Carbon Compounds or Chem 277 and 372  Organic Chemistry (3 cr)
- Chem 302  Principles of Physical Chem or Chem 305-306  Physical Chem (3 cr)
- Chem 303  Principles of Physical Chem Lab (1 cr)
- Chem 418  Environmental Chemistry (3 cr)
- EnvS 428  Pollution Prevention (3 cr)
- EnvS 429  Environmental Audit (3 cr)
- EnvS 479  Introduction to Environmental Regulation (3 cr)
- EnvS 498  Internship (1-3 cr)
- For 472 or REM 472  Remote Sensing of Environment (3.4 cr)
- Geog 301  Meteorology or Geog 401  Climatology (3 cr)
- Geog 385  GIS Primer (3 cr)
- Geog 450  Global Environmental Change (3 cr)
- Geol 309  Ground Water Hydrology (3 cr)
- Geol 361  Geology and the Environment (3 cr)
- Math 175  Analytic Geometry and Calculus II (4 cr)
- Math 275  Analytic Geometry and Calculus III (3 cr)
- MMBB 380  Introductory Biochemistry (4 cr)
- Phys 111  General Physics I or 211  Engr Physics I (4 cr)
- Phys 112  General Physics II or 212  Engr Physics II (4 cr)
- Soil 206  The Soil Ecosystem (3 cr)

And one of the following options:

A. Biological Science Option

This option is suitable for students wishing to pursue technically oriented careers in environmental professions such as natural resource management, bioremediation, and environmental impact analysis.

- CE 326  Hydrologic Measurement Techniques (1 cr)

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Page 9
Chem 112  Principles of Chemistry II (5 cr)
Engl 317  Technical Writing (3 cr)
Geog 100  Physical Geography or Geol 101  Physical Geology (4 cr)
Math 170  Analytic Geometry and Calculus I or 160  Survey of Calculus (4 cr)
MMBB 250  General Microbiology (3 cr)

Advisor-directed breadth electives, incl at least one course from the first four areas (24 cr):

**Ecology**
- Biol 314  Ecology and Population Biology (4 cr)
- For 221  Ecology (3 cr)
- Geog 310  Biogeography (2-3 cr)
- MMBB 425  Microbial Ecology (3 cr)
- REM 221  Ecology (3 cr)

**Natural Resource Economics and Sociology**
- AgEc 451  Applied Environmental and Natural Resource Economics (3 cr)
- Anth 220  Peoples of the World (3 cr)
- CSS 383  Resource Economics for Environmental Policymaking (3 cr)
- Econ 385  Environmental Economics (3 cr)
- For 235  Society and Natural Resources (3 cr)

**Management**
- ChE 470 or EnvS 445  Hazardous Waste Management (3 cr)
- CSS 486  Public Policy and Administration (2 cr)
- Geog 420  Land, Resources, and Environment (3 cr)
- Geog 427  Spatial Multicriteria Analysis and Optimization (3 cr)
- Geog 444  Environmental Assessment (4 cr)

**History, Philosophy, and Political Science**
- AgEc 477  Law, Ethics, and the Environment (3 cr)
- CSS 489  Personalities and Philosophies in Conservation (2 cr)
- Hist 424  American Environmental History (3 cr)
- Phil 351  Philosophy of Science (3 cr)
- Phil 417  Philosophy of Biology (3 cr)
- PolS 364  Politics of the Environment (3 cr)

**Technical**
- Biol 213  Principles of Biological Structure and Function (4 cr)
- Chem 253  Quantitative Analysis (5 cr)
- Chem 275  Carbon Compounds or Chem 277 and 372  Organic Chemistry (3 cr)
- Chem 302  Principles of Physical Chem or Chem 305-306  Physical Chem (3 cr)
- Chem 303  Principles of Physical Chem Lab (1 cr)
- Chem 418  Environmental Chemistry (3 cr)
- EnvS 428  Pollution Prevention (3 cr)
- EnvS 429  Environmental Audit (3 cr)
- EnvS 479  Introduction to Environmental Regulation (3 cr)
- EnvS 498  Internship (1-3 cr)
- For 472 or REM 472  Remote Sensing of Environment (3-4 cr)
- Geog 301  Meteorology or Geog 401  Climatology (3 cr)
- Geog 385  GIS Primer (3 cr)
- Geog 450  Global Environmental Change (3 cr)
- Geol 309  Ground Water Hydrology (3 cr)
- Geol 361  Geology and the Environment (3 cr)
- Math 175  Analytic Geometry and Calculus II (4 cr)
- Math 275  Analytic Geometry and Calculus III (3 cr)
- MMBB 380  Introductory Biochemistry (4 cr)
- Phys 111  General Physics I or 211  Engr Physics I (4 cr)
- Phys 112  General Physics II or 212  Engr Physics II (4 cr)
- Soil 205  The Soil Ecosystem (3 cr)

Advisor-approved depth electives – include all the courses from at least two of the following areas (20 cr):

**Plant Protection**
- Ent 322  General and Applied Entomology or 491  Principles of Insect Pest Mgt (3 cr)
- PIsc 338  Weed Control (3 cr)
- PIsc 415  Plant Pathology (3 cr)
- Soil 446  Soil Fertility (1-3 cr, max 3)

**Animal Ecology**
- WLF 314  Wildlife Ecology I (3 cr)
- WLF 315  Wildlife Ecology I Laboratory (1 cr)
- WLF 316  Wildlife Ecology II (4 cr)
- WLF 448  Fish and Wildlife Population Ecol or 440  Conservation Biol (3-4 cr)

**Aquatic Ecology**
- Take 3 of the 4 courses listed below:
  - Ent 472  Aquatic Entomology (3 cr)
  - Fish 314  Fish Ecology (3 cr)
  - Fish 415  Limnology (4 cr)
  - Fish 430  Riparian Ecology and Management (3 cr)

**Forest and Range Systems**
Take 4 of the 7 courses listed below:
  For 330  Forest Ecosystem Processes (2 cr)
  For 423  Forest Community Ecology (1 cr)
  For 426  Wildland Fire Ecology and Management (3 cr)
  For 429  Landscape Ecology (3 cr)
  REM 357  Rangeland and Riparian Habitat Assessment (3 cr)
  REM 440 Wildland Restoration Ecology (3 cr)
  REM 459  Rangeland Ecology (2 cr)

Soils
  Soil 437  Soil Biology (3 cr)
  Soil 438  Pesticides in the Environment (3 cr)
  Soil 446  Soil Fertility (1-3 cr, max 3)

Water
  Take at least 4 of the 6 courses listed below:
    BAE 450  Environmental Hydrology (3 cr)
    EnvS 446  Drinking Water and Human Health (3 cr)
    For 462  Watershed Management (3 cr)
    Geol 309  Ground Water Hydrology (3 cr)
    Geol 410  Techniques of Ground Water Study (3 cr)
    Geol 464  The Geochemistry of Natural Waters (3 cr)

Environmental Regulation
  Geog 420  Land, Resources, and Environment (3 cr)
  Geog 444  Environmental Assessment (4 cr)

Decision Making Tools
  For 472 or REM 472  Remote Sensing of Environment (3-4 cr)
  Geog 385  GIS Primer (3 cr)
  LArc 495  Computer-Aided Regional Landscape Planning (3 cr)

Environmental Chemistry
  Chem 418  Environmental Chemistry (3 cr)
  Ent 438  Pesticides in the Environment (3 cr)
  FST 409 Principles of Environmental Toxicology (3 cr)

Electives to total 128 credits for the degree

B. Physical Science Option

This option is suitable for students wishing to pursue technical careers in environmental professions such as air, soil, and water pollution abatement, hazardous waste management, waste minimization, and ecological restoration.

| CE 326 Hydrologic Measurement Techniques (1 cr) |
| Chem 112 Principles of Chemistry II (5 cr) |
| Engl 317 Technical Writing (3 cr) |
| Geog 100 Physical Geography or Geol 101 Physical Geology (4 cr) |
| Math 170 Analytic Geometry and Calculus I or 160 Survey of Calculus (4 cr) |
| Phys 111 General Physics I (4 cr) |

Advisor-directed breadth electives, incl at least one course from the first four areas (24 cr):

  Ecology
    Biol 314  Ecology and Population Biology (4 cr)
    For 221 Ecology (3 cr)
  Geog 310  Biogeography (2-3 cr)
  MMBB 425 Microbial Ecology (3 cr)
  REM 221 Ecology (3 cr)

Natural Resource Economics and Sociology
  AgEc 451  Applied Environmental and Natural Resource Economics (3 cr)
  Anth 220  Peoples of the World (3 cr)
  CSS 353  Resource Economics for Environmental Policymaking (3 cr)
  Econ 385  Environmental Economics (3 cr)
  For 235  Society and Natural Resources (3 cr)

Management
  ChE 470 or EnvS 445 Hazardous Waste Management (3 cr)
  CSS 486  Public Involvement in Natural Resource Mgt (3 cr)
  For 484  Forest Policy and Administration (2 cr)
  Geog 420  Land, Resources, and Environment (3 cr)
  Geog 427 Spatial Multicriteria Analysis and Optimization (3 cr)
  Geog 444 Environment Assessment (4 cr)

History, Philosophy, and Political Science
  AgEc 477  Law, Ethics, and the Environment (3 cr)
  CSS 489  Personalities and Philosophies in Conservation (2 cr)
  Hist 424 American Environmental History (3 cr)
  Phil 351  Philosophy of Science (3 cr)
  Phil 417  Philosophy of Biology (3 cr)
  PolS 364  Politics of the Environment (3 cr)

Technical
  Biol 213 Principles of Biological Structure and Function (4 cr)
Chem 253  Quantitative Analysis (5 cr)
Chem 275  Carbon Compounds or Chem 277 and 372  Organic Chemistry (3 cr)
Chem 302  Principles of Physical Chem or Chem 305-306  Physical Chem (3 cr)
Chem 303  Principles of Physical Chem Lab (1 cr)
Chem 418  Environmental Chemistry (3 cr)
EnvS 428  Pollution Prevention (3 cr)
EnvS 429  Environmental Audit (3 cr)
EnvS 479  Introduction to Environmental Regulation (3 cr)
EnvS 498  Internship (1-3 cr)
For 472 or REM 472  Remote Sensing of Environment (3-4 cr)
Geog 301  Meteorology or Geog 401  Climatology (3 cr)
Geog 385  GIS Primer (3 cr)
Geog 450  Global Environmental Change (3 cr)
Geol 309  Ground Water Hydrology (3 cr)
Geol 361  Geology and the Environment (3 cr)
Math 175  Analytic Geometry and Calculus II (4 cr)
Math 275  Analytic Geometry and Calculus III (3 cr)
MMBB 380  Introductory Biochemistry (4 cr)
Phys 111  General Physics I or 211  Engr Physics I (4 cr)
Phys 112  General Physics II or 212  Engr Physics II (4 cr)
Soil 205  The Soil Ecosystem (3 cr)

Advisor-approved depth electives – meet requirements of at least two of the following areas (20 cr):

Water
Take at least 4 of the 6 courses listed below:
- BAE 450  Environmental Hydrology (3 cr)
- EnvS 446  Drinking Water and Human Health (3 cr)
- For 462  Watershed Management (3 cr)
- Geol 309  Ground Water Hydrology (3 cr)
- Geol 410  Techniques of Ground Water Study (3 cr)
- Geol 464  The Geochemistry of Natural Waters (3 cr)

Chemistry
- Chem 418  Environmental Chemistry (3 cr)
- Chem 454  Instrumental Analysis (4 cr)
- FST 409  Principles of Environmental Toxicology (3 cr)
- MMBB 380  Introductory Biochemistry (4 cr)

Hazardous Waste
- ChE 470 or EnvS 445  Hazardous Waste Management or BAE 433 Bioremediation or Met 406  Treatment Technology for Recycled Waste (3 cr)
- ChE 480  Engineering Risk Assessment for Hazardous Waste Evaluations (3 cr)
- FST 409  Principles of Environmental Toxicology (3 cr)

Geology
- Geol 335  Geomorphology (3 cr)
- Geol 361  Geology and the Environment (3 cr)
- Geol 423  Principles of Geochemistry (3 cr)
- Geol 464  The Geochemistry of Natural Waters (3 cr)

Statistics
- GeoE 428  Geostatistics (3 cr)
- Stat 401  Statistical Analysis (3 cr)
- Stat 422  Sample Survey Methods (3 cr)

Mathematics
- Math 175  Analytic Geometry and Calculus II (4 cr)
- Math 275  Analytic Geometry and Calculus III (3 cr)
- Math 310  Ordinary Differential Equations (3 cr)
- Math 330  Linear Algebra (3 cr)

Soils
- Soil 415  Soil Physics (3 cr)
- Soil 422  Environmental Soil Chemistry (3 cr)
- Soil 454  Soil Development and Classification (3 cr)

Economics and Management
- Econ 385  Environmental Economics (3 cr)
- For 472 or REM 472  Remote Sensing of Environment (3-4 cr)
- Geog 385  GIS Primer (3 cr) or LArc 395  GIS in Land Planning (3 cr)
- Geog 444  Environmental Assessment (4 cr)

Electives to total 128 credits for the degree

C.  Physical Science 2 Option

This option is only available to students in Idaho Falls

Chem 112  Principles of Chemistry II (5 cr)
Engl 317  Technical Writing (3 cr)
Geog 100  Physical Geography or Geol 101  Physical Geology (4 cr)
Math 170  Analytic Geometry and Calculus I or 160  Survey of Calculus (4 cr)

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Phys 111 General Physics I (4 cr)
Advisor-directed breadth electives, incl at least one course from the first four areas (24 cr):

**Ecology**
- For 221 Ecology (3 cr)

**Natural Resource Economics and Sociology**
- Anth 220 Peoples of the World (3 cr)
- PTTE 410 Technology and Society (3 cr)

**Management**
- ChE 470 Hazardous Waste Management (3 cr)
- EnvS 479 Introduction to Environmental Regulations (3 cr)
- For 462 Watershed Science and Management (3 cr)
- Geog 424 Hydrologic Applications of GIS and Remote Sensing (3 cr)

**History, Philosophy, and Political Science**
- Geog 364 Idaho and the Pacific Northwest (3 cr)
- Hist 423 Idaho and the Pacific Northwest (3 cr)
- Hist 424 American Environmental History (3 cr)
- Phil 365 Biomedical Ethics (3 cr)
- PolS 364 Politics of the Environment (3 cr)

**Technical**
- Biol 116 Organisms and Environments (4 cr)
- Chem 253 Quantitative Analysis (5 cr)
- Chem 275 Carbon Compounds (3 cr)
- Chem 305 or Chem-306 Physical Chem (3 cr)
- Chem 372 Organic Chemistry II (3 cr)
- Chem 418 Environmental Chemistry (3 cr)
- EnvS 428 Pollution Prevention (3 cr)
- EnvS 429 Environmental Audit (3 cr)
- EnvS 479 Introduction to Environmental Regulation (3 cr)
- EnvS 498 Internship (1-3 cr)
- For 472 Remote Sensing of the Environment (3 cr)
- Geog 385 GIS Primer (3 cr)
- Geog 450 Global Environmental Change (3 cr)
- Geog 475 Advanced GIS (3 cr)
- Geol 102 Historical Geology (4 cr)
- Geol 309 Ground Water Hydrology (3 cr)
- Geol 323 Geology of the Pacific Northwest (3 cr)
- Geol 361 Geology and the Environment (3 cr)
- Math 175 Analytic Geometry and Calculus II (4 cr)
- Math 275 Analytic Geometry and Calculus III (3 cr)
- MMBB 380 Introductory Biochemistry (4 cr)
- NR 402 GIS Applications in Natural Resources (1 cr)
- Phys 112 General Physics II or Phys 212 Engr Physics II (4 cr)
- REM 407 GIS Application in Fire Ecology and Management (1 cr)
- REM 440 Wildland Restoration Ecology (3 cr)
- REM 459 Rangeland Ecology (2 cr)
- REM 560 Plant Ecophysiology (3 cr)
- Soil 205 The Soil Ecosystem (3 cr)

Advisor-approved depth electives – meet requirements of at least two of the following areas (20 cr):

**Water**
- Take at least 4 of the courses listed below:
  - BAE 450 Environmental Hydrology (3 cr)
  - CE 433 Water Quality Management (3 cr)
  - CSS 573 Planning & Decision Making for Watershed Management (3 cr)
  - Fish 540 Wetland Restoration (3 cr)
  - For 462 Watershed Management (3 cr)
  - Geol 309 Ground Water Hydrology (3 cr)
  - Geol 464 The Geochemistry of Natural Waters (3 cr)
  - Hydr 414 Ground Water-Surface Water Interaction (3 cr)

**Chemistry**
- Chem 418 Environmental Chemistry (3 cr)
- Chem 454 Instrumental Analysis (4 cr)
- FS 409 Principles of Environmental Toxicology (3 cr)
- MMBB 380 Introductory Biochemistry (4 cr)

**Hazardous Waste**
- ChE 470 or ChE 570 Hazardous Waste Management (3 cr)
- ChE 480 or ChE 580 Engineering Risk Assessment for Hazardous Waste Evaluations (3 cr)
- FS 409 Principles of Environmental Toxicology (3 cr)
- PTTE 364 Hazardous Materials (3 cr)

**Mathematics**
- Math 175 Analytic Geometry and Calculus II (4 cr)
- Math 275 Analytic Geometry and Calculus III (3 cr)
- Math 310 Ordinary Differential Equations (3 cr)
Math 330  Linear Algebra (3 cr)

Economics and Management

Take at least 4 of the courses listed below:
- EnvS 428  Pollution Prevention (3 cr)
- Geog 385  GIS Primer (3 cr)
- Geog 450  Global Environmental Change (3 cr)
- Geog 475  Advanced GIS (3 cr)
- Geog 424  Hydrologic Applications of GIS and Remote Sensing (3 cr)

Environmental Policy & Regulations

Take at least 4 of the courses listed below:
- CSS 572  Human Dimensions of Restoration Ecology (3 cr)
- CSS 573  Planning & Decision Making for Watershed Management (3 cr)
- EnvS 429  Environmental Audit (3 cr)
- EnvS 479  Introduction to Environmental Regulations (3 cr)
- EnvS 482  Natural Resource Policy and Law (3 cr)
- EnvS 580  Environmental Law and Regulation (3 cr)

Electives to total 128 credits for the degree

DC. Social Science Option

This option is suitable for students wishing to pursue careers in environmental professions such as environmental regulation, land use planning, environmental administration, and as a pre-law program for environmental law.

CE 326  Hydrologic Measurement Techniques (1 cr)

Engl 309  Advanced Prose Writing or JAMM 428  Environmental Journalism (3 cr)

Engl 316  Environmental Writing or Engl 317  Technical Writing (3 cr)

Geog 100  Physical Geography (4 cr)

Geol 101  Physical Geology (4 cr)

Math 137  Algebra with Applications or 143  Pre-calculus Algebra and Analytic Geom (3 cr)

PoIS 235  Political Research Methods and Approaches or Hist 290  The Historian’s Craft or Phil 201  Critical Thinking (3 cr)

Advisor-directed breadth electives, incl at least one course from the first four areas (24 cr):

Ecology
- Biol 314  Ecology and Population Biology (4 cr)
- For 221  Ecology (3 cr)
- Geog 310  Biogeography (2-3 cr)
- MMBB 425  Microbial Ecology (3 cr)
- REM 221  Ecology (3 cr)

Natural Resource Economics and Sociology
- AgEc 451  Applied Environmental and Natural Resource Economics (3 cr)
- Anth 220  Peoples of the World (3 cr)
- CSS 363  Resource Economics for Environmental Policymaking (3 cr)
- Econ 385  Environmental Economics (3 cr)
- For 235  Society and Natural Resources (3 cr)

Management
- ChE 470  or EnvS 445  Hazardous Waste Management (3 cr)
- CSS 486  Public Involvement in Natural Resource Mgt (3 cr)
- For 484  Forest Policy and Administration (2 cr)
- Geog 420  Land, Resources, and Environment (3 cr)
- Geog 427  Spatial Multicriteria Analysis and Optimization (3 cr)
- Geog 444  Environmental Assessment (4 cr)

History, Philosophy, and Political Science
- AgEc 477  Law, Ethics, and the Environment (3 cr)
- CSS 489  Personalities and Philosophies in Conservation (2 cr)
- Hist 424  American Environmental History (3 cr)
- Phil 351  Philosophy of Science (3 cr)
- Phil 417  Philosophy of Biology (3 cr)
- PoIS 364  Politics of the Environment (3 cr)

Technical
- Biol 213  Principles of Biological Structure and Function (4 cr)
- Chem 253  Quantitative Analysis (5 cr)
- Chem 275  Carbon Compounds or Chem 277 and 372  Organic Chemistry (3 cr)
- Chem 302  Principles of Physical Chem or Chem 305-306  Physical Chem (3 cr)
- Chem 303  Principles of Physical Chem Lab (1 cr)
- Chem 418  Environmental Chemistry (3 cr)
- EnvS 428  Pollution Prevention (3 cr)
- EnvS 429  Environmental Audit (3 cr)
- EnvS 479  Introduction to Environmental Regulation (3 cr)
- EnvS 498 Internship (1-3 cr)
- For 472  or REM 472  Remote Sensing of Environment (3-4 cr)
- Geog 301  Meteorology or Geog 401  Climatology (3 cr)
- Geog 385  GIS Primer (3 cr)
- Geog 450  Global Environmental Change (3 cr)
- Geol 309  Ground Water Hydrology (3 cr)
Geol 361 Geology and the Environment (3 cr)
Math 175 Analytic Geometry and Calculus II (4 cr)
Math 275 Analytic Geometry and Calculus III (3 cr)
MBBB 380 Introductory Biochemistry (4 cr)
Phys 111 General Physics I or 211 Engr Physics I (4 cr)
Phys 112 General Physics II or 212 Engr Physics II (4 cr)
Soil 205 The Soil Ecosystem (3 cr)

Advisor-approved depth electives chosen from the following, incl five courses from one of the following areas:

Conservation Heritage
  Anth 422 Plateau Indians (3 cr)
  CSS 489 Personalities and Philosophies in Conservation (2 cr)
  Engl 473 American Regional Literature (3 cr)
  Engl 484 American Indian Literature (3 cr)
  Geog 364 Idaho and the Pacific Northwest (3 cr)
  Geog 420 Land, Resources, and Environment (3 cr)
  Hist 424 American Environmental History (3 cr)
  Hist 428 History of the American West (3 cr)
  LArc 480 The Emerging Landscape (3 cr)

Law
  EnvS 479 Introduction to Environmental Regulations (3 cr)
  Geog 420 Land, Resources, and Environment (3 cr)
  Law 937 Natural Resources Law and Legal History (3 cr)
  Law 947 Environmental Law I (3 cr)
  Law 948 Public Land Law (3 cr)
  Phil 470 Philosophy of Law (3 cr)
  Phil 571 Ecological Jurisprudence (3 cr)
  PolS 364 Politics of the Environment (3 cr)
  PolS 467 Constitutional Law (3 cr)
  PolS 468 Civil Liberties (3 cr)

Policy and Planning
  Comm 331 Conflict Management (3 cr)
  CSS 383 Resource Economics for Environmental Policymaking (3 cr)
  CSS 385 Conservation Management and Planning I (3 cr)
  CSS 387 Environmental Communication Skills (3 cr)
  CSS 494 Public Relations for Natural Resources Professionals (3 cr)
  Econ 385 Environmental Economics (3 cr)
  For 484 Forest Policy and Administration (2 cr)
  Geog 444 Environmental Assessment (4 cr)
  PolS 364 Politics of the Environment (3 cr)
  PolS 451 Public Administration (3 cr)
  PolS 454 Public Organization Theory (3 cr)
  PolS 462 Natural Resource Policy (3 cr)
  Psyc 416 Industrial/Organizational Psychology (3 cr)

Green Building and Community Design
  Arch 151 Introduction to the Built Environment (2 cr)
  Arch 266 Materials and Methods (3 cr)
  Arch 463 Environmental Control Systems (4 cr)
  Arch 464 Environmental Control Systems (4 cr)
  Geog 400 Seminar (3 cr)
  Geog 450 Global Environmental Change (3 cr)
  LArc 380 Water in the Urban Context (2 cr)
  LArc 480 The Emerging Landscape (3 cr)

Electives to total 128 credits for the degree
TO: University Curriculum Committee
FROM: Graduate Council
RE: Proposed Changes Graduate Admissions [Effective: Summer 2010]
DATE: October 16, 2009

Please note that any references in the catalog to a 2.80 GPA relative to a College of Graduate Studies issue should be changed to a 3.00 GPA.

Graduate Admission to the University

The University of Idaho offers 29 doctoral programs, 7 specialist programs, and 77 master's programs. Graduate students are able to pursue degrees full- or part-time.

All of the graduate programs are available on the main campus in Moscow. Graduate programs in education disciplines are available at UI's Coeur d'Alene and Boise centers, graduate programs in engineering and natural resources are available at UI's Boise center, and graduate programs in engineering disciplines and several physical science disciplines are available at the Idaho Falls center.

More than 750 faculty members participate in teaching and research. In addition to the accreditation of individual programs, the University is accredited by the Northwest Commission on Colleges and Universities.

Academic Requirements

Students who satisfy all criteria listed below will be considered for graduate admission to the University of Idaho:

(1) Have a bachelor's degree from a college or university accredited by a regional accrediting association. If the degree is from a recognized but not regionally accredited institution, the application will be reviewed by the department and by the College of Graduate Studies.

(2) Have an undergraduate cumulative grade-point average of 2.80 or higher or an undergraduate grade-point average of 3.00 or higher for the last 60 semester credits (or 90 quarter credits),

(3) Have maintained at least a 2.80 grade-point average in subsequent academic work if any, and

(4) Have been reviewed and recommended for acceptance by the department administering the program in which the student seeks to enroll. For individual departmental admission requirements please refer to part 5 of this catalog or consult the graduate admissions website at www.uidaho.edu/gradadmissions.

The College of Graduate Studies requires all applicants to submit three letters of recommendation, a one to two page Statement of Career Objectives and a one to two page resume/curriculum vitae.

Students planning to apply for work leading to a graduate degree should contact the department in which they wish to major before submitting the application for graduate admission. All admission decisions are made at the departmental level with final admission granted by the College of Graduate Studies. Admission is granted only to a specific degree and program and initial admission is granted for a specific semester.

Admission application files will be sent to the department for review once all required documents have been received by the Graduate Admissions Office. Students currently enrolled in a college or university need to submit a current transcript that shows all work completed thus far.

PRIORITY DEADLINES AND APPLICATION FEES

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<tr>
<th>Domestic Applicants</th>
<th>International Applicants</th>
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<td>Spring-September 1</td>
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<td>Summer-February 1</td>
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<td>Non-refundable application fee $55.00</td>
<td>Non-refundable application fee $60.00</td>
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Priority consideration for awarding College of Graduate Studies tuition waivers will be given to applicants who meet the above deadlines. Individual academic departments may have earlier departmental deadlines especially for applicants seeking financial assistance or assistantships.

Some departments do not admit graduate students for the Spring and Summer terms.

Applications received after the above deadlines but before the official start of the semester for which the applicant is seeking entry will be accepted only if additional students can be accommodated.

Please consult the graduate admissions website at www.uidaho.edu/gradadmissions for more information regarding academic departments’ requirements and deadlines.

The Graduate Admissions Office is not authorized to give out information without written authorization to anyone other than the applicant. Please submit a Student Consent for Release Form (available on the admissions website) if you want someone specific to be given information regarding your admission status.

Graduate Record Examination

The Graduate Record Examination (GRE) is not a College of Graduate Studies requirement, but is required by some departments. Official copies of GRE results must come from the Educational Testing Service. In rare cases, if the examination is many years out of date, students may be able to provide unofficial results of the examination with their admission application to facilitate evaluation and acceptance. GRE scores are retained by the student's department. Applicants wishing to take the Computer Based GRE on campus should contact the Counseling and Testing Center.

Transcripts and Application for Admission

Graduate students wishing to enter the College of Graduate Studies must submit a University of Idaho application for admission, three letters of recommendation from professional/academic references, a statement of career objectives, vitae/resume, and have official transcripts sent directly from each institution attended to the Graduate Admissions Office. Transcripts become the property of the university and cannot be copied, returned, or forwarded.

The Test of English as a Foreign Language (TOEFL) is required for permanent residents and American citizens whose primary language is not English. Primary language is defined as native language or the official language of instruction used in previous university-level academic work.

Acceptance

When admitted to the College of Graduate Studies, a graduate applicant will be issued a letter of acceptance. Acceptance is granted for a specified semester or summer session. If an applicant does not register for the term indicated, it will be necessary for the applicant to notify the Graduate Admissions Office if he or she should desire to enter for a subsequent session or semester.

Admission Categories

**Regular Enrollment.** Regular enrollment for graduate study leading toward an advanced degree may be granted to a student who satisfies all of the following criteria: (1) has a bachelor's degree from a college or university accredited by a regionally accrediting association, (2) has an undergraduate cumulative grade-point average of 2.80 or higher or an undergraduate grade-point average of 3.00 or higher for the last 60 semester credits (or 90 quarter credits), (3) has maintained at least a 2.80 grade-point average in subsequent academic work if any, and (4) has been reviewed and recommended for acceptance by the department administering the program in which the student seeks to enroll.

**Provisional Enrollment.** A student who is not eligible for regular enrollment may be considered for provisional enrollment (on the master's level only) if the department administering the program recommends it, and if at least two of the following conditions are met: (1) the student's undergraduate GPA shows steady improvement; (2) the student has taken post-baccalaureate undergraduate level course work with A and/or B grades; (3) the student has achieved the 75th percentile on the relevant GRE or equivalent exam; (4) the student has been out of school for five or more years and has been working for at least one year in the field of the proposed graduate major. The department specifies conditions that the student must fulfill in order to be advanced to regular enrollment. Provisional enrollment may also be granted to a student who is otherwise eligible for regular enrollment but whose prospective department specifies conditions that he or she must first meet (i.e. achievement of specific
grades and/or completion of specific course work). **International students who hold nonresident alien visas and students who are to be appointed to assistantships cannot be accepted in provisional enrollment.**

The admissions office notifies the student that he/she has been accepted for provisional enrollment. In the letter of acceptance, the following general and specific terms governing the student's provisional enrollment are stated:

1. A student may not remain in provisional enrollment status for more than 12 consecutive calendar months (a shorter period may be specified). Nor may a student remain in this status after completing nine credits (a lower credit limitation may be specified).

2. A student will be advanced from provisional to regular enrollment provided he or she maintains a GPA of at least 3.00 each semester while in the provisional status (a higher GPA may be specified), fulfills the conditions, if any, that were specified at the time of initial enrollment, and receives no incompletes.

3. A student who does not meet the stated conditions for advancement to regular enrollment within the specified time and credit limitations cannot continue in the College of Graduate Studies or enroll in 500-level courses and is subject to normal disqualification and reinstatement procedures.

**It is the student's responsibility** to be in touch with the department regarding his or her progress toward meeting the conditions for advancement.

The conditions specified for a student's advancement to regular enrollment are established at the time of his or her acceptance and must not be changed (i.e., either strengthened or relaxed) thereafter.

Departments need not require a student to make up ALL of his or her academic deficiencies while in provisional enrollment. Performance on a limited selection of them should suffice to demonstrate whether or not the student has the ability to do satisfactory graduate work. Remaining deficiencies, if any, can be made up after the student is in regular enrollment. The department must be sure that any courses the student is required to take while in provisional enrollment will, in fact, be offered during that period.

**Unclassified Enrollment.** Unclassified enrollment is for students who do not wish to work for a graduate degree and is not to be used as a probationary category. Admission as an unclassified student does not guarantee subsequent transfer to any departmental degree program. This enrollment category is not open to international students who hold nonresident alien visas or to students who are to be appointed to assistantships. Students on Unclassified enrollment are not eligible for Title IV financial aid.

**Non-degree Student.** Refer to the “Non-Degree Admission Requirements” section above for a full description of this classification. Non-degree students are not admitted to the College of Graduate Studies. They may, however, take graduate courses with permission of the instructor and the Dean of the College of Graduate Studies provided that they have earned a baccalaureate degree with an overall 2.80 GPA. Non-degree students are not eligible for Title IV financial aid. If a non-degree student receives a grade of C, D, or F in a 500-level course, he/she loses the privilege of taking more 500-level courses.

**Dual Level Curricula for Graduate Students.** A graduate student may enroll in an undergraduate curriculum and be in both programs simultaneously. The "Course Level Adjustment" form indicating course use (graduate, undergraduate or law) is available and must be filed each semester or session by the 10th day of classes. Please note that students who have not been admitted as undergraduate or law students in the past need to officially apply for admission at the appropriate level. Students in dual-level curricula will be assessed graduate fees for all courses.

**Seniors in 500-Level Courses.** A senior who has a cumulative grade-point average of 2.80-3.00 or higher may enroll in 500-level courses. The course(s) may be placed on either the undergraduate or the graduate transcript. Seniors desiring to have the class placed on a graduate transcript must submit to and have approved by the Graduate College a "Course Level Adjustment" form that lists the course(s) to be placed on the graduate transcript. If the form is not filed, the course(s) will automatically be placed on the undergraduate transcript. The placing of courses on a graduate transcript does not admit or guarantee subsequent admission of such students to the Graduate College. The deadline for filing the "Course Level Adjustment" form is the tenth day of the class for that semester or session. All courses placed on a graduate transcript, regardless of the course level, will be assessed graduate fees. (NOTE: Information duplicated in Part 4.)

**Returning Students.** A graduate student who has completed one degree and wishes to enroll in further courses must file a "Change of Curriculum" form with the Graduate Studies Office. A returning graduate student who has not enrolled within two years of the term in which he or she wishes to register must file an Application for Readmission with the Graduate Admissions Office (see B-1). Readmission must be approved by the department in whose degree program the returning graduate student wishes to enroll. If the department denies the readmission, the student will be moved automatically into Unclassified enrollment status.

**Admission of International Students**
The College of Graduate Studies welcomes applications from qualified students from other countries. International applicants are expected to have qualifications equivalent to those required of other graduate students.

**Credentials.** Official transcripts and/or certified copies of the certificate, diploma, or government examination report received on completion of any college or university course work must be sent by the certifying agency directly to the Graduate Admissions Office. The credentials must be translated into English if written in a foreign language.

**English Language Proficiency.** UI requires all applicants whose primary language is not English to demonstrate proficiency in the English language. Because most applicants report the Test of English as a Foreign Language (TOEFL) score, UI bases its minimum English language proficiency requirements on the TOEFL. UI College of Graduate Studies requires a minimum TOEFL score of 525 (paper or test), 193 (computer test), or 70 (internet based test). Equivalent measures of proficiency acceptable to UI include the MELAB (74 77), the Cambridge IELTS (6.05), Cambridge CAE (Pass), Cambridge CPE (Pass), and Cambridge International O level (Pass). Most departments require language proficiency at the level of the TOEFL 550 (paper), 213 (computer), or 70 (internet) or above. It is important to verify the departmental TOEFL score requirement as many departments require a score higher than indicated above. Exceptions to the minimum TOEFL requirement are made for (a) those from official English-speaking countries, (b) those who have earned a degree from either a U.S. institution or an institution in another official English-speaking country, or (c) based on the judgment of the Graduate Admissions Office, those who have earned at least 12 credits, with a grade C or better, in university-level courses, English courses from a U.S. institution, or an institution in another official English-speaking country, or (d) those who successfully complete Level 6 of the American Language and Culture Program at the University of Idaho. UI does not accept scores that are more than two years old. Applicants wishing to take the Computer Based TOEFL or the MELAB on campus should contact the Counseling and Testing Center.

**Deferred Admission.** Deferred admission may be granted to applicants who qualify academically, but who have not yet met UI's minimum English language proficiency requirement. In deferred admission status, students enroll in UI's American Language and Culture Program (ALCP) to achieve the academic department's English language requirement prior to being granted full admission and commencing their degree programs. Please note that not all academic departments grant deferred admission.

** Concurrent Enrollment as an Option of Deferred Admission.** Students enrolled in ALCP Level 5 or Level 6 may, in consultation with the coordinator of ALCP and the course instructor, obtain approval to enroll as non-degree students for up to 7 credits per semester of academic courses in addition to their full-time ALCP courses. Students whose proficiency levels later prove inadequate for success in the academic courses may be withdrawn at the discretion of the academic course instructor and the ALCP coordinator. Once students achieve the necessary language qualification and gain full admission to the university, they may apply the credits of academic courses completed while in deferred admission status toward UI degree programs (other university and College of Graduate Studies restrictions may apply).

**Financial Statement.** As required by the U.S. Immigration and Customs Enforcement (USICE), all international students who hold or intend to hold nonresident alien visas must present to the Graduate Admissions Office satisfactory statements of finances and adequate proof of financial responsibility or sponsorship to cover all financial obligations while attending the University of Idaho.

**Health and Accident Insurance.** Supplemental health and accident insurance is mandatory for international students who hold nonresident alien visas and all accompanying dependents. Students must purchase and maintain the UI health insurance (SHIP) policy or document coverage of an equivalent policy with the International Programs Office before they are allowed to register or attend classes. Failure to obtain and maintain the required insurance may subject students to sanctions, up to and including disenrollment. See information on insurance in the Student Services section.

**Status.** In order to pursue a degree, international students must be authorized in their current visa status. Immigration regulations require that international students holding F-1 or J-1 student visas be certified as full-time students during the academic year. F-1 graduate students are required to be enrolled in 9 credit hours and are allowed to take up to 3 credits of online coursework towards this requirement. J-1 visa holders are also required to enroll in 9 credit hours, but are not allowed to take online classes toward the 9-credit requirement. Other visa categories may be eligible to study in the U.S. Students who do not hold an F-1 or J-1 student status should contact the International Programs Office for rules governing enrollment while in the U.S.

**Deadline for Application for Admission.** To provide time for evaluation, for notice of admission status to reach the applicant, and for USICE requirements to be met for issuance of a student visa, applications and credentials should be received by the Graduate Admissions Office no later than the following dates: for fall semester, May 1; for spring semester, October 1; for summer session, March 15. (Please note: The priority application deadlines are February 1 for fall semester and summer sessions and September 1 for spring semester. Priority consideration for awarding College of Graduate Studies tuition waivers will be given to applicants who meet those deadlines.)

**International Student Advisors.** The international student advisors (ISAs) are involved with an international student's progress at every stage of the educational process. Once a student has been admitted, the ISAs provide general information about
cultural adjustment and the educational system, as well as specific details about other matters. Community contacts may be arranged, if requested. All matters pertaining to a student's non-immigrant status with Department of Homeland Security (DHS) are handled through the International Programs Office. A mandatory orientation before registration provides new students with assistance on initial questions. After this orientation, students are invited to visit the ISAs at any time with questions or concerns relating to immigration matters, education, finances, and cultural adjustment. The ISAs also serve as official liaisons between students and their consular offices or sponsoring agencies.
IDAHO STATE BOARD OF EDUCATION
ACADEMIC/PROFESSIONAL-TECHNICAL EDUCATION
NOTICE OF INTENT
To initiate a
New, Expanded, Cooperative, Discontinued, program component or Off-Campus Instructional Program or Instructional/Research Unit

Institution Submitting Proposal: University of Idaho
Name of College, School, or Division: College of Natural Resources
Name of Department(s) or Area(s): Departments of Forest Resources, Fish and Wildlife Resources, Rangeland Ecology and Management, Forest Products, and Conservation Social Sciences

Indicate if this Notice of Intent (NOI) is for an Academic or Professional Technical Program
Academic X Professional - Technical

This is a New, Expanded, Cooperative, Contract, or Off-Campus Instructional Program, or Administrative/Research Unit (circle one) leading to:

A reorganization of the college that reduces the number of academic departments from five to three. The reorganization includes tenure reassignment, departmental name changes, and realignment of undergraduate academic programs with the resulting academic units. It also initiates two university level time-bound processes to explore the development of two self-sustaining research and outreach programs. Goals are to increase synergy within and across units, reduce costs of administration, and realign, where appropriate, undergraduate academic programming to reduce duplication and more effectively employ faculty resources in teaching, research, and outreach associated with natural resource sciences and management.

(Degree or Certificate)

Proposed Starting Date: January 1, 2010

For New Programs: For Other Activity:

Program (i.e., degree) Title & CIP 2000

□ Program Component (major/minor/option/emphasis)

□ Off-Campus Activity/Resident Center

□ Instructional/Research Unit

□ Addition/Expansion

□ Discontinuance/consolidation

□ Contract Program

X Other

Revised 1/4/10
Page 1
## Dean’s signature on file 1/6/2010

<table>
<thead>
<tr>
<th>Position</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>College Dean (Institution)</td>
<td></td>
</tr>
<tr>
<td>VP Research &amp; Graduate Studies</td>
<td></td>
</tr>
<tr>
<td>Chief Fiscal Officer (Institution)</td>
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<tr>
<td>State Administrator, SDPTE</td>
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<tr>
<td>Chief Academic Officer (Institution)</td>
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<td>Chief Academic Officer, OSBE</td>
<td></td>
</tr>
<tr>
<td>President</td>
<td></td>
</tr>
<tr>
<td>SBOE/OSBE Approval</td>
<td></td>
</tr>
</tbody>
</table>

Revised 1/4/10
Page 2
Before completing this form, refer to Board Policy Section III.G., Program Approval and Discontinuance.

1. Briefly describe the nature of the request e.g., is this a new program (degree, program, or certificate) or program component (e.g., new, discontinued, modified, addition to an existing program or option).

Part 1 – Change in Organizational Structure: Consolidation of five existing academic departments into three. The five existing departments will be reorganized/consolidated into three: (1) Department of Conservation Social Sciences; (2) Department of Forest Ecology and Biogeosciences, and (3) Department of Fish and Wildlife Resources. The new organizational structure consolidates two closely allied departments (Forest Resources and Rangeland Ecology and Management) and the Forest Products Department is discontinued as an administrative unit. CNR faculty and the eight undergraduate programs will be consolidated into the three resulting administrative units or associated with a center or institute either inside or outside of CNR.

Part 2 – Faculty tenure reassignment will be aligned with the assignment of academic programs to the resulting departmental units. This reassignment creates three academic departmental units with nine or more tenure track faculty in each. It also enhances the interdisciplinary nature of each group and creates an increased potential for joint appointments across CNR units.

Part 3 – Seven of the eight existing undergraduate academic degree programs (ecology and conservation biology, fire ecology and management, fishery resources, forest resources, rangeland ecology and management, resource recreation and tourism, wildlife resources) will be assigned to the three new academic departments. The remaining unassigned academic program in Forest Products, including its two options, is being redesigned and by August 1, 2010 will be assigned to an academic department, center or institute either inside or outside of CNR. The redesign focus is the area of bio-products/materials, especially those using woody biomass.

Part 4 – The forest operations option in the Forest Products undergraduate degree program is being consolidated into the existing Society of American Foresters accredited Forest Resources academic program.

Part 5 – The College has an opportunity in conjunction with units across campus to better service stakeholders by developing new self-sustaining research and outreach programs in the areas of Sustainable Rangelands and Bio-products/materials. Interested faculty inside and outside the college along with stakeholders will be brought together in two separate Task Forces to explore the viability of creating such units (program, center, institute or other collaborative). Each Task Force would have until August 1, 2010 to refine and develop its ideas as to how these potential opportunities might function and be organized. It is envisioned that the outcomes of these Task Forces would be implemented using the NOI process or whatever university and/or non-university process(es) necessary.

2. Provide a statement of need for program or a program modification. Include student and state need, demand, and employment potential. **Attach a Scope and Sequence, SDPTE Form Attachment B, for professional-technical education requests.** (Use additional sheets if necessary.)

This effort was motivated by changes in university-level guidance on department size and an emphasis on consolidating and increasing our efficiency while retaining and/or enhancing academic program quality. The university and college strategic plans also influenced the planning and decisions used in this process.

The proposed change in organizational structure will consolidate two departments and integrate activities of two under-sized departments (three and six tenure-track, faculty members) into the
remaining three departments. After consolidation, all remaining departments will meet the institutional guideline of at least nine full time, tenure track faculty per department. The reorganization also increases the interdisciplinary diversity within the remaining three departments. We see opportunities associated with this change and we expect an increased demand for green, natural resource based jobs such as:

- Restoration ecology
- Watershed management
- Biological assessment
- Fisheries and aquaculture
- Fire science and management
- Conservation leadership and planning
- Bio-based products

This emerging demand includes Idaho, the region and the world. Emerging areas expected to grow include: fisheries, sustainable development, fire management, and the interface of humans and ecosystems in the intermountain West. Continuing to improve our organization and redesign our natural resource education delivery enhances our college’s potential to provide organizations like Idaho Department of Fish and Game, Idaho Department of Lands, U.S. Fish & Wildlife Service, the U.S. Forest Service, the Bureau of Land Management, the Idaho Department of Water Resources, Idaho cities and counties, private enterprises, non-governmental organizations such as The Nature Conservancy and others who hire professionals capable of addressing real-world natural resource and environmental problems. In Idaho and the region these include forest and rangeland management, endangered species conservation, watershed restoration, carbon accounting, fish and wildlife population monitoring, bio-product development, and the impacts of land use change on Idaho’s growth and development. These are significant issues in the state of Idaho. Continuing to educate graduates with the ability to create solutions to real-world problems is critical to maintaining Idaho’s quality of life.

Employment opportunities for our graduates are likely to increase due to our ability to better meet the requirements of natural resource program accrediting organizations through increased synergy, larger and more diverse departmental facilities and repositioning our academic programs.

In particular, the proposed re-design of the forest harvesting and operations minor and career track will be better positioned to receive recognition by the Society of American Foresters as part of our already SAF accredited Forest Resources degree program. This will increase the credentials of graduates in this area as well as enhance the likelihood to attract internships with the private, public, and non-profit natural resource sectors. Ultimately our goal is to continue to produce a high quality and diverse natural resource workforce that can anticipate and respond to a broad range of natural resource challenges.

3. Briefly describe how the institution will ensure the quality of the program (e.g., accreditation, professional societies, licensing boards, etc.).

Academic Program quality will be maintained by working to retain presently accredited undergraduate academic programs covered in this NOI. In the case of forest operations, we believe SAF accreditation as a part of the Forest Resources degree will be an enhancement. As a result, the University of Idaho will remain competitive with other regional and national institutions of higher education. Maintaining accreditation credentials also allows us to continue to obtain competitive research support, and produce graduate and undergraduate students with required competencies necessary to qualify for state and federal rosters. It ensures we will retain a highly visible presence within the ecology and associated applied natural resource professions in forestry, range, wildlife, fisheries, fire, conservation biology and conservation social sciences.
4. Identify similar programs offered within the state of Idaho or in the region by other colleges/universities. If the proposed request is similar to another program, provide a rationale for the duplication. This may not apply to PTE programs if workforce needs within the respective region have been established.

Within the state, these academic program areas are unique to the University of Idaho. In the region, natural resource programs exist in Washington, Oregon, Utah, Nevada, Montana and Wyoming. However, the quality and diversity of Idaho’s natural resource programs continue to stand out in the region. This is in part due to our focus on continued improvement and constant dedication to redesign and upgrade our academic programming.

Enrollment and Graduates (i.e., number of majors or other relevant data)
By Institution for the Proposed Program
Last three years beginning with the current year and the 2 previous years

<table>
<thead>
<tr>
<th>Institution</th>
<th>Relevant Enrollment Data</th>
<th>Number of Graduates</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Current</td>
<td>Previous Year</td>
</tr>
<tr>
<td>BSU</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>CSI</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>CWI</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>EITC</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>ISU</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>LCSC</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>NIC</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>UI</td>
<td>680</td>
<td>693</td>
</tr>
</tbody>
</table>

Our expectation is that reorganization may initially lead to a slight drop in enrollment in selected programs, which will rebound as our repositioned and revitalized academic degree programs become more attractive to potential students.
Degrees offered by school/college or program(s) within disciplinary area under review

<table>
<thead>
<tr>
<th>Institution and Degree name</th>
<th>Level</th>
<th>Specializations within the discipline (to reflect a national perspective)</th>
<th>Specializations offered within the degree at the institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSU</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>CSI</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>CWI</td>
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<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>EITC</td>
<td>NA</td>
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<td>NA</td>
</tr>
<tr>
<td>ISU</td>
<td>NA</td>
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</tr>
<tr>
<td>LCSC</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>NIC</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>UI</td>
<td>BS</td>
<td>Natural resource sciences and professional education in a range of areas including: fisheries and aquaculture, wildlife, range, forestry, forest products, conservation biology, resource recreation and tourism, terrestrial and aquatic ecology, forest hydrology and related water resources, conservation education, protected area management, conservation social sciences, restoration ecology, geo-spatial sciences and fire science.</td>
<td>Bachelor of Science in Fire Ecology and Management; Bachelor of Science in Fishery Resources with emphases in management and aquaculture; Bachelor of Science in Forest Products with options in forest products business management, forest operations, and wood construction and design; Bachelor of Science in Forest Resources; Bachelor of Science in Ecology and Conservation Biology with options in natural resources ecology and conservation biology; Bachelor of Science in Rangeland Ecology and Management ; Bachelor of Science in Resource Recreation and Tourism; and Bachelor of Science in Wildlife Resources</td>
</tr>
<tr>
<td></td>
<td>MS</td>
<td>Natural Resources or specialties listed above</td>
<td>Natural Resources with thesis or project focused on a defined discipline or interdisciplinary specialty within natural resources</td>
</tr>
<tr>
<td>MNR PhD</td>
<td>Professional Masters in Natural Resources</td>
<td></td>
<td></td>
</tr>
<tr>
<td>---------</td>
<td>------------------------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Natural Resources or specialty areas listed above</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Professional Masters in Natural Resources</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Natural Resources with dissertation focused on a defined discipline or interdisciplinary specialty within natural resources</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

5. Describe how this request is consistent with the State Board of Education’s policy or role and mission of the institution. (i.e. centrality).

As the state’s land grant university, the University of Idaho has been assigned the statewide mission of developing professionals and scientists to sustain natural resources. This proposal retains and strengthens this focus and better positions our programs to develop future generations of natural resource professionals. It also creates an opportunity for focused groups of stakeholders in the bio-materials and rangeland areas to work with others to develop research and outreach programs that ultimately will better address their needs.

6. Is the proposed program in the 8-year Plan? Indicate below.

Yes    No  X

If not on 8-year plan, provide a justification for adding the program.

This effort meets University of Idaho central administration’s guidance on department size and addresses budgetary concerns presently faced by the University. In addition, the University and college strategic plans were used to develop the logic behind this proposal.
8. Resources--Faculty/Staff/Space Needs/Capital Outlay. (Use additional sheets if necessary):

**Impacts shown below are estimated savings not costs.** Savings in personnel are a result of eliminating two department head administrative stipends and summer salaries and by reducing/reorganizing departmental and college administrative staffing. Savings in operating expenses represent reductions in phone service and basic office supplies. These savings will be used to meet state holdbacks, for faculty salaries and in the realignment of administrative services.

<table>
<thead>
<tr>
<th>Estimated Fiscal Impact</th>
<th>FY 10</th>
<th>FY 11</th>
<th>FY 12</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A. Expenditures</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Personnel</td>
<td>156,365</td>
<td>211,496</td>
<td>211,496</td>
<td>$570,357</td>
</tr>
<tr>
<td>2. Operating</td>
<td>500</td>
<td>1000</td>
<td>1000</td>
<td>$2,500</td>
</tr>
<tr>
<td>3. Capital Outlay</td>
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<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>4. Facilities</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>TOTAL:</strong></td>
<td>$156,865</td>
<td>$212,496</td>
<td>$212,496</td>
<td>$572,857</td>
</tr>
</tbody>
</table>

**B. Source of Funds**

<table>
<thead>
<tr>
<th></th>
<th>FY 10</th>
<th>FY 11</th>
<th>FY 12</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Appropriated-reallocation</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2. Appropriated – New</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>3. Federal</td>
<td>0</td>
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<td>0</td>
</tr>
<tr>
<td>4. Other:</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>TOTAL:</strong></td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**B. Nature of Funds**

<table>
<thead>
<tr>
<th></th>
<th>FY 10</th>
<th>FY 11</th>
<th>FY 12</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Recurring *</td>
<td>$156,865</td>
<td>$212,496</td>
<td>$212,496</td>
<td>$572,857</td>
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<tr>
<td>2. Non-recurring **</td>
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<td>0</td>
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<tr>
<td><strong>TOTAL:</strong></td>
<td>$156,865</td>
<td>$212,496</td>
<td>$212,496</td>
<td>$572,857</td>
</tr>
</tbody>
</table>

* Recurring is defined as ongoing operating budget for the program, which will become of the base.
** Non-recurring is defined as one-time funding in a fiscal year and not part of the base.