Davis Division Academic Senate

Request for Consultation Responses

Establishment Proposal - Environmental Policy and Management

April 27, 2015

A proposal to establish a new graduate group and MS degree program in Environmental Policy and Management is submitted for feedback to inform Graduate Council review.
Library

April 24, 2015 10:15 AM

Response continued on next 10 pages.
Date: April 27, 2015
Re: Establishment Proposal – Graduate Group and MS Degree in Environmental Policy and Management

In order to provide a solid basis for its response, the Library Committee asked University Librarian, MacKenzie Smith, to have her staff prepare an assessment of the adequacy of existing library resources for the proposed Graduate Group and MS Degree in Environment Policy and Management and to identify potential financial and service implications the proposed program could have on the Library. The assessment is appended to this response.

The Committee has reviewed the proposal of the Graduate Group and MS Degree, its accompanying documents and the library’s analysis of the program. While the Library Committee supports the overall proposal, the Committee notes that the Library’s analysis indicates additional resources, such as additional journal subscriptions, may need to be purchased to adequately support the new program. The Committee is unclear if the library or the program will cover any potential costs the library may incur as a result of the new program. Should new subscriptions or more support staff be needed for the Graduate Group and MS degree, additional library funding will be needed.
To: MacKenzie Smith, University Librarian
From: Beth Callahan, Research Services; Myra Appel, Collection Strategies; Robin Gustafson, Access & Delivery Services; Peg Durkin, Public Services, Law School
Date: April 9, 2015
Re: Letter of support for the new Graduate Group and M.S. Degree Program in Environmental Policy

We are writing this letter of support to provide background information on the Library’s collections and services and prospective resources needed to support the proposed Graduate Group and M.S. Degree Program in Environmental Policy. We look forward to continuing our collaborative partnership through the strong links created with new and existing faculty and students.

LIBRARY SPACE
The Shields Library offers generous study space with opportunities for quiet study areas as well as group and collaborative work. Group study rooms are available on a first come, first serve basis. Portable and rolling whiteboards are available for checkout from the Reserves Service Desk. Graduate carrels are available first to PhD students who advance to candidacy, then to other PhD candidates, and then to Masters students depending on availability.

RESEARCH SERVICES
Environmental Science and Policy (EPM) master’s students will likely be interested in many of the services the University Library already provides for other graduate programs such as integrated library sessions for the required graduate coursework, EndNote classes, and consultations on literature research.

With the anticipation to have a maximum enrollment of 40 graduate students in this proposed MS program, and based upon the experience of working with a similar number of graduate students in the GGE (Graduate Group in Ecology), we expect an increase in demand for librarian consultation time. Librarian availability in this area is stretched thin and, in particular, there is no librarian with skills to support the expected GIS needs of these EPM master’s students. By coincidence, the University Library has started the process for recruitment for a new librarian position to support environmental sciences. The formation of this new M.S. program will be an excellent opportunity for the proposed environmental sciences librarian to collaborate with the major faculty involved with the ESM MS to create integrated library instruction across the curriculum to support the new classes and projects in this Environmental Policy and Management area.

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DOCUMENT DELIVERY SERVICES
The Library’s services provide onsite and online access as well as delivery of information that meets the evolving needs and expectations of our users for learning, research, teaching, creativity, and intellectual growth. Shields Library offers a robust suite of document delivery services which students are encouraged to use in support of their studies and research. This service is available due to both our collection strengths and longstanding cooperative agreements with libraries worldwide and is a mainstay for the UCD libraries. The impact of the increased number of document requests, by these new students, is not expected to add significantly to the current workload such that additional staffing or equipment would be required.

LIBRARY COLLECTIONS

Mabie Law Library
There are several databases that the Mabie Law Library subscribes to that are available to the general campus and others that are restricted by IP address to use in the School of Law, King Hall. Many of these would be of interest to the graduate students in the EPM program.

For example, the Law Library has contracted for HeinOnline and LoisLaw to be available campus-wide. HeinOnline furnishes access to complete historical runs of the Statutes at Large, U.S. Code, Federal Register, Code of Federal Regulations and Congressional Record. HeinOnline also allows access to federal legislative history materials for major federal legislation. LoisLaw is a new acquisition for the Law Library; it will include many secondary titles in a wide variety of topic areas.

Additionally, the Law Library subscribes to a number of environmental online resources that require license agreements. While the licenses restrict access to law library IP addresses, they can be accessed by anyone from terminals in King Hall. For example, the Bureau of National Affairs (BNA) which is part of Bloomberg publishes the following environment related titles:

- Daily Environment Reporter
- Environment & Safety Library
- Environmental Due Diligence Guide
- Federal Environment & Safety Regulatory Monitoring Report
- International Environment Reporter
- State Environment Daily

The Continuing Education of the Bar (CEB), publishes legal commentaries specific to California law. The law library has a comprehensive set of the CEB publications in paper. The titles are also available through the publishers own database, CEB OnLaw which is restricted to law school IP addresses. The titles include: Practice Under the California Environmental Quality Act, California Subdivision Map Act and the Development Process, and California Land Use Practice.

In addition to the above mentioned resources the law library subscribes to three major comprehensive commercial online legal research services in support of its teaching, research and scholarship mission: LexisAdvance, WestlawNext and BloombergLaw. All three services provide access to primary legal
resources such as statutes, regulations and decisions by courts and administrative agencies. Each service also provides access to secondary publications i.e. books and full-text periodicals, which all topically cover environmental law. However, the licenses to the above databases restrict use to law school faculty, staff and students. If these databases are important to the teaching, research and scholarship of the EPM students, the campus may need to explore licensing options to extend access.

University Library
The University Library holds robust and diverse collections in Environmental Sciences, Ecology, Environmental Toxicology, and Environmental Engineering. Collections support research and instruction in the academic departments, the research facilities/centers and graduate groups (for example, John Muir Institute of the Environment; Graduate Group in Ecology; Center for Environmental Policy and Behavior; Policy Institute for Energy, Environment and the Economy; Information Center for the Environment; Bodega Marine Laboratory; and the Institute of Transportation Studies to name but a few). Responsive to the campus focus on Green and Sustainable environment and infrastructure, the Library has emphasized building collections to reinforce these campus initiatives. With some exceptions, the library holds the breadth and depth of resources required to accommodate a new M.S. degree program in EPM.

In assessing the EPM (general and specific) major databases, the library provides access to a more than adequate selection of discovery resources:

- Environmental Sciences & Pollution Management
  - ASFA 3: Aquatic Pollution and Environmental Quality
  - Biotechnology Research Abstracts
  - Ecology Abstracts
  - Environmental Engineering Abstracts
  - Health and Safety Science Abstracts
  - Industrial and Applied Microbiology Abstracts (Microbiology A)
  - Bacteriology Abstracts (Microbiology B)
  - Pollution Abstracts
  - Risk Abstracts
  - Sustainability Science Abstracts
  - Toxicology Abstracts
  - Water Resources Abstracts
- BIOSIS
- Environmental Impact Statements (digest and selected full-text)
- National Technical Reports Library (NTRL)
- Web of Science
- CAB Abstracts
- Compendex
- PAIS (Public Affairs Information Service)
- Environment & Energy Publishing (E&E) publications **
  - EnergyWire, ClimateWire, GreenWire, E&E Daily, E&E News PM, E&E TV
- LexisNexis Academic
- Factiva
In assessing the top 20 journal titles in Environmental Studies, Environmental Sciences, Ecology, Transportation Science & Technology, Toxicology, and Environmental Engineering (based on 2013 JCR 5-year impact rankings), the library again provides access to most major journals that address the needs of an M.S. program in EPM. Appended are the lists of JCR impact ranked titles in the fields most closely relevant to EPM. Titles that the Library does not currently subscribe to are highlighted in yellow. The following is subset of titles that should be considered for adding in support of the new program:

- Global Environmental Change-Human and Policy Dimensions (access via ScienceDirect Freedom Collection; suggest we do not subscribe as long as part of the Freedom Collection) List Price: $1543
- Wiley Interdisciplinary Reviews-Climate Change (suggest we subscribe) List Price: $2321
- Regional Environmental Change (suggest we subscribe) List Price: $803
- Nanotoxicology (suggest we subscribe) List Price: $2398
- Critical Reviews in Toxicology (suggest we subscribe) List Price: $3054
- Greenhouse Gases-Science and Technology (suggest we subscribe) List Price: $1726
- Stochastic Environmental Research and Risk Assessment (suggest we subscribe) List Price: $2109
- Environmental Chemistry Letters (would suggest we do not subscribe unless demand emerges) List Price: $577

The Shields Library cancelled an important print title in 2002, Environmental Law Reporter (List Price $3750), which is now accessible online (2002-present) only to UC Davis Law school affiliates and all others can access only from the Mabie Law Library public workstations. This title is important enough that we recommend adding online access for the entire campus.

An additional title which we’ve had requests to re-instate is the Taylor & Francis “Climate Policy” (List Price $1077) journal which is ranked 50/98 in the Environmental Studies title ranking. A newer 2010 title which has a unique focus, Climate Change Economics (List Price $544), would also be a title to add.

In addition, new faculty hires often submit specific title requests to the library within their first year on campus.

We note that many journal resources supporting our excellent conservation biology and restoration ecology departments/programs will be of great importance to M.S. students in EPM. A quick review of faculty and researchers cited in the proposed program file shows that many of these faculty publish in journal titles in these areas, particularly Conservation Biology, Biological Conservation, Conservation Letters. The University Library has exceptional depth of collection in
these areas. We also have a very rich collection supporting the ARE (Agricultural and Resources Economics) department which includes two top publications for the ESP faculty to publish in: Journal of Environmental Economics and Management and Environmental & Resource Economics.

UC Davis University Library is one of only two UC libraries (the other is UCB) which licenses the complete collection of BioOne publications. These titles include essential regional environment and ecosystem titles which will be important to the proposed EPM program.

Although the Library maintains a strong monographic collection on environmental policy and management, new faculty hires will bring innovative new areas of research and interdisciplinary approaches. With the volume of monographs published on these topics, the Library anticipates that we will need to expand our collecting scope by approximately $5000 annually to enlarge our acquisition profiles.

Environmental Sciences is also one of the major disciplines with extensive output in the audiovisual publishing arena. The UC Davis University Library has only been able to be very highly selective in purchases of documentaries in the environmental sciences area. The university library is currently investigating a possible option of purchasing streaming media which will be very well used in the environmental sciences.

An important part of the University Library collections to support EPM areas are the essential government documents resources including EPA documents and international as well as U.S., state and regional government publications.

New faculty and their graduate students potentially will require access to data sets, data support and GIS services. Although the needs currently are not yet clearly identified and articulated, a mature EPM graduate program will require a combination of content resources, software, equipment and services that also will enhance library support to Environmental Sciences and Engineering. The cost is yet to be determined.

Should the demand arise and existing licensing and cost be advantageous, we can also foresee collaborating with the Mabie Law Library for content already subscribed to by the Law Library.

In sum, Library Collections resources are fairly well-situated to meet the needs of an M.S. program in EPM. The addition of a few journal subscriptions and a broader collecting scope for monographs will enrich library support for the new M.S. degree program, while also strengthening support for all UC Davis environmentally focused programs.

** We currently have a one year trial agreement with E&E and would suggest that given this product’s strength centers on environmental and energy policy that we should strongly consider formalizing our arrangement/subscription. An annual subscription for UC Davis, based on 2014/2015 fees, is $5000 with anticipated 7% - 10% increases annually.
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*Environmental Studies, 5 year JCR*
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The table lists various journals and their corresponding ISSNs.
| Rank | Title | Score | Year | Articles | Citations | Impact Factor | 5-Year Impact Factor | immediacy Index | Total Citations | 2-year IF | 5-year IF | 10-year IF | Average Article Citations | Citation Influence | Article Influence | Article Normalized Influence | Article Attention | Total Article Attention | Article Altmetric Attention Score | Article Altmetric Influence | Article Altmetric Normalized Influence | Article Social Attention | 2018 JCR | 2019 JCR | 2020 JCR | 2021 JCR | 2022 JCR |
|------|-------|-------|------|---------|-----------|---------------|-------------------|------------------|-----------------|-----------|-----------|-------------|----------------------------|-----------------|-----------------|---------------------------------|-----------------|-----------------------------|-----------------|--------------|--------------|--------------|--------------|--------------|
| 1    | Annual Rev Electrochem | 1.44  | 2022 | 0.27    | 0.27      | 1.44           | 1.44              | 0.27             | 2.22            | 0.27      | 0.27      | 0.27        | 0.27                               | 0.27            | 0.27            | 0.27                                     | 0.27            | 0.27                                      | 0.27                                      | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          |
| 2    | Trends Electrochem       | 1.42  | 2022 | 0.26    | 0.26      | 1.42           | 1.42              | 0.26             | 2.19            | 0.26      | 0.26      | 0.26        | 0.26                               | 0.26            | 0.26            | 0.26                                     | 0.26            | 0.26                                      | 0.26                                      | 0.26          | 0.26          | 0.26          | 0.26          | 0.26          |
| 3    | Electrochem Lett         | 1.40  | 2022 | 0.25    | 0.25      | 1.40           | 1.40              | 0.25             | 2.13            | 0.25      | 0.25      | 0.25        | 0.25                               | 0.25            | 0.25            | 0.25                                     | 0.25            | 0.25                                      | 0.25                                      | 0.25          | 0.25          | 0.25          | 0.25          | 0.25          |
| 4    | Front Electrochem Eng   | 1.39  | 2022 | 0.24    | 0.24      | 1.39           | 1.39              | 0.24             | 2.06            | 0.24      | 0.24      | 0.24        | 0.24                               | 0.24            | 0.24            | 0.24                                     | 0.24            | 0.24                                      | 0.24                                      | 0.24          | 0.24          | 0.24          | 0.24          | 0.24          |
| 5    | ISIJ International      | 1.36  | 2022 | 0.23    | 0.23      | 1.36           | 1.36              | 0.23             | 2.01            | 0.23      | 0.23      | 0.23        | 0.23                               | 0.23            | 0.23            | 0.23                                     | 0.23            | 0.23                                      | 0.23                                      | 0.23          | 0.23          | 0.23          | 0.23          | 0.23          |
| 6    | Ecological Modelling and Analysis | 1.35 | 2022 | 0.22    | 0.22      | 1.35           | 1.35              | 0.22             | 1.98            | 0.22      | 0.22      | 0.22        | 0.22                               | 0.22            | 0.22            | 0.22                                     | 0.22            | 0.22                                      | 0.22                                      | 0.22          | 0.22          | 0.22          | 0.22          | 0.22          |
| 7    | Global Change Biol      | 1.29  | 2022 | 0.21    | 0.21      | 1.29           | 1.29              | 0.21             | 1.94            | 0.21      | 0.21      | 0.21        | 0.21                               | 0.21            | 0.21            | 0.21                                     | 0.21            | 0.21                                      | 0.21                                      | 0.21          | 0.21          | 0.21          | 0.21          | 0.21          |
| 8    | Global Change Biol      | 1.29  | 2022 | 0.21    | 0.21      | 1.29           | 1.29              | 0.21             | 1.94            | 0.21      | 0.21      | 0.21        | 0.21                               | 0.21            | 0.21            | 0.21                                     | 0.21            | 0.21                                      | 0.21                                      | 0.21          | 0.21          | 0.21          | 0.21          | 0.21          |
| 9    | Methods Electrochem    | 1.28  | 2022 | 0.20    | 0.20      | 1.28           | 1.28              | 0.20             | 1.90            | 0.20      | 0.20      | 0.20        | 0.20                               | 0.20            | 0.20            | 0.20                                     | 0.20            | 0.20                                      | 0.20                                      | 0.20          | 0.20          | 0.20          | 0.20          | 0.20          |
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| Korea   | 47   | 56   | 48   | 43   | 42   | 40   | 43   | 45   | 52   | 49   | 50   | 53   | 52   | 53   | 55   | 56   |
| Japan   | 51   | 53   | 55   | 55   | 53   | 52   | 51   | 50   | 48   | 47   | 47   | 45   | 45   | 45   | 45   | 45   |
| China   | 98   | 94   | 91   | 88   | 86   | 84   | 81   | 78   | 74   | 70   | 68   | 65   | 63   | 63   | 63   | 63   |
| USA     | 152  | 151  | 149  | 147  | 145  | 143  | 141  | 139  | 137  | 135  | 133  | 131  | 131  | 131  | 131  | 131  |
| Germany | 13   | 15   | 17   | 19   | 21   | 23   | 25   | 27   | 29   | 31   | 33   | 35   | 37   | 39   | 41   | 43   |

**Notes:**
- The table above represents the number of citations in various countries from 1997 to 2012.
- The numbers reflect the impact and influence of these countries in the field of Toxicology.
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