**Library Support for the Proposed Software Engineering Program on Cascades Campus**

This report is an analysis of the capacity of the OSU Cascades local library collection and services, in combination with access to the resources of the whole of OSU Libraries and Summit, to support the proposed Software Engineering degree on the Cascades campus.

**Print Monographs and E-Books**

Due to the size restrictions of the OSU Cascades Library, support for this program will depend on the OSU Valley Library in Corvallis and OSULP e-book collections. The print collection at the Valley Library is available to OSU Cascades students by request and can be received within 3 working days. The print collection is strong, being significantly larger than the peer institutions identified (See Table 1).

**Table 1. Software Engineering Print Monograph Holdings Comparison with Peer Institutions**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Subject terms** | **OSU (ORE)** | **Oregon Institute of Technology (OIT)** | **Portland State University (ORZ)** | **University of Oregon (ORU)** | **Rose-Hulman Institute of Technology (IRQ)** |
| Computer programs | 3,005 | 1,232 | 2,516 | 2,024 | 393 |
| Computer science | 3,786 | 524 | 1,868 | 1,768 | 195 |
| Computer software | 1,655 | 284 | 680 | 526 | 85 |
| Open source | 59 | 8 | 16 | 49 | 4 |
| Programming language | 1,110 | 618 | 788 | 668 | 185 |
| Software architecture | 184 | 18 | 47 | 38 | 8 |
| Software development | 817 | 165 | 251 | 227 | 60 |
| Software engineering | 759 | 111 | 243 | 139 | 35 |
| Total | 10,659 | 2,187 | 5,304 | 4,525 | 707 |

The growing availability of e-books makes it possible to expedite access to more information from various locations. This immediate access serves the OSU Cascades students and faculty well. Students at the OSU Cascades campus will have access to the e-books purchased centrally, which includes over 6,953 titles in software engineering, in a collection of almost 400,000 titles.

OSU is served well by the OSULP investment in the Orbis/Cascades Alliance, whose combined collection is substantial. Students and faculty can order from the collections of all the libraries in the Orbis Cascade Alliance through the Summit catalog. University of Oregon, Portland State University, University of Washington and Washington State University are some of the larger research libraries represented in the Summit catalog. Books requested through Summit are delivered to OSULP within three to five working days.

**Serials/Journals**

The OSULP maintain a strong journals collection in Software Engineering. Of the 106 journals in the Computer Science—Software Engineering Category in Web of Science, OSULP has access to 83 titles (78%), including all 27 of the high-impact journals (Impact Factor > 2). All of these subscriptions are for electronic access to the articles, so OSU Cascades students have immediate access to the content. There is concern that with regular price increases to our licenses and a flat budget that access may be eroded over time. The OSULP already have sacrificed timely access to some titles in favor of an embargo period to cut costs.

**Indexes and Databases**

The core indexes to the relevant information for this program are shown in Table 2. The OSULP maintain access to these databases as they are core to a number of OSU’s primary research and teaching areas.

**Table 2: Indexes and Databases for Software Engineering**

|  |  |  |  |
| --- | --- | --- | --- |
| **Databases** | **Publisher** | **Index Coverage** | **Full Text Coverage** |
| Compendex | Elsevier | 1969-Present | Index Only |
| ACM Digital Library | ACM | 1954-Present | 1954-Present; Includes journals and conference papers |
| IEEE Xplore | IEEE | 1951-Present | 1951-Present; Includes journals, conference papers, books, and standards |
| Morgan & Claypool Synthesis Digital Library | Morgan & Claypool | 2005-present | 2005-present; short, authoritative e-books |
| Safari Books Online | Various | N/A | Technology e-books; titles can be requested by contacting the Engineering Librarian |

**Key library services & librarian expertise**

Expertise at OSU-Cascades is covered by Sami Kerzei, who provides instruction as requested either in-class or via the web, responds to reference inquiries, and develops materials to assist faculty members and students in their research.

The liaison for the College of Engineering is Lindsay Marlow. Liaisons serve as the major contact for faculty, staff and students, monitor trends in curriculum and research, attend relevant college, departmental and program events to gain insight, and identify how OSULP expertise and resources can be most effectively used. They promote OSULP expertise and collaborate with the Expert Leads to integrate and leverage that expertise throughout the OSU Community. .

Providing access to items not owned by OSULP is the domain of the Interlibrary Loan and Summit staff both at OSULP and at lending libraries. Print articles located in the OSU Libraries’ collections may be requested via the Scan and Deliver service, which provides PDFs of the requested articles.

**Summary**

OSU Libraries collections are adequate to support the proposed Software Engineering degree at Cascades campus.

Respectfully submitted,

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Collection Assessment and Science Librarian

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