

TRU Library Curriculum Consultation

For new courses or new programs, or substantial changes to existing ones, consultation with the Library is essential and required. Please check the appropriate box below:

- ☒ **New Program Proposal:** The Library will require six (6) weeks to complete this consultation form for new programs.
- ☐ **New Course Proposal OR Substantial Course Change (existing):** The Library requires three (3) weeks to complete this consultation form for new or substantially changed courses.

Please complete the top portion of the form and send it to the librarian consultant electronically. The name and contact information of your departmental librarian consultant may be found at: http://www.tru.ca/library/about_us/liaisons.html.

FROM: (please print)

Name: _____ Dept./School: _____

Email: _____ Phone: _____

TO: (please print)

Name (Librarian) Penny Haggarty Date: May 19, 2017

We are proposing curriculum changes for the following courses or programs:

Insert specific course(s)/program proposals here. Please provide as much detail as possible, including course outlines, recommended readings, database and journal titles that are core to the program/course. Attach appropriate documentation as necessary.

This section to be completed by librarian:

Please indicate the effect in terms of library support, appending additional pages if necessary. To be completed in consultation with other branches/libraries/librarians, TRU or external, if an interdisciplinary program or otherwise necessary.

Library Service or Resource	Description of Effect (cost, etc.)
Collections – strengths and gaps in the current collection in relevant areas	Currently held books and ebooks – Library owns very few relevant titles Computer Engineering: 42 books published 2006-2017 21 books published earlier than 2006

	Electrical Engineering: 36 books published 2006-2017 25 books published 2005 or earlier Software Engineering: 44 books published 2006-2017 42 books published 2005 or earlier The Library book/reference book collection needs to be expanded greatly to support these programs. Access Engineering and Knovel (see below under Databases) will provide considerable support, especially for the first 2 years. It is recommended that the Library and faculty collaborate to increase engineering ebook/book holdings by committing a minimum of \$30,000 annually evidence-based acquisitions (EBA). The priority should be ebook acquisitions. The Library will strive to obtain unlimited user access and generous digital rights management in its licenses with ebook vendors for engineering content. EBA will allow the Library and the faculty to make purchases based on usage of ebooks over the span of a year at a time, as opposed to buying materials ahead of time, that they think might see some use. The average cost of an ebook in engineering is \$150.00. Article on EBA: http://www.infotoday.eu/Articles/Editorial/Featured-Articles/Evidence-based-acquisitions-a-win-win-98610.aspx
Databases and Journals – Current	Science Citation Index – citation and abstracting database ACM Digital Library – Full text journals, conference proceedings and magazines http://dl.acm.org/contents_dl.cfm?coll=portal&dl=ACM&CFID=764322708&CFTOKEN=65530789 SpringerLink – Full text journal package Wiley - Full text journal package ScienceDirect (Elsevier) - Full text journal package Journal Holdings Lists: See Appendices 1-3

Databases - Required	IEEE Explore/IET Electronic Library - \$30,000 per year This product provides high-impact journals not currently in TRU Library's subscriptions. Compendex Database/Knovel ebook bundle - \$45,000 per year. The premier database for engineering literature and subject-specific ebook collection. Access Engineering - \$9000 per year. This product has over 600 reference books, textbooks and study guides; plus curriculum maps and faculty created videos. ASTM Standards (Premium) - \$10,200
Estimated annual budget needed for the Library to support Computer Engineering, Electrical Engineering, and Software Engineering programs and courses	Resources: \$124,200.00 CDN Full time tenure-track faculty librarian (see below): \$75,000.00 to \$91,033.00 plus benefits
Librarian expertise to support the program (instruction, research and collection development support)	TRU librarians are engaged in building library collections to support teaching, learning, and research at TRU. Faculty should be encouraged to work collaboratively with librarians to ensure that students are introduced to quality resources and the skills required to find them in their first year; early library instruction means that students are able to further develop and apply effective and efficient use of research resources as they progress in their program. It is anticipated that by their 4th year, students will be needing in-depth and personalized research consultations with librarians in order to customize teaching and assistance to their individual complex final project needs. While the current TRU librarians are committed to providing the best possible service to current and future programs, the addition of a STEM librarian to the full-time tenure-track complement of TRU librarians would be a strong asset to the engineering and other science programs – especially in order to handle the increased number of specialized individual research consultations identified above.
Other information to be considered	All prices are estimates, based on current quotes and the Canadian-US dollar exchange rate. An inflationary increase in the cost of subscriptions described in "Databases – Required" and currently held subscriptions is normally in the range of 3-5% per year.

Based on the information provided:

- ☐ Proposal as presented will have little or no impact on the Library.
- ☐ Proposal as presented will impact the Library AND can be supported with existing resources.
- ☒ Proposal as presented will impact the Library AND **requires additional resources**; see details above or appended.

Signature: Penny Haggarty

Date: May 19, 2017

Print Name: Penny Haggarty

APPENDIX 1 Computer Engineering Journals at TRU

Title	Package Name	Start Date	End Date
Advances in Electrical and Computer Engineering	DOAJ: Directory of Open Access Jc	1/1/2007	Present
Advances in engineering software	ScienceDirect (CRKN)	1/1/1995	Present
Applicable Algebra in Engineering, Communication and Computing	SpringerLINK (CRKN)	3/1/1009	Present
Baltic Journal of Modern Computing	DOAJ: Directory of Open Access Jc	1/1/2008	Present
Computer Applications in Engineering Education	Wiley Online Library (CRKN)	1/1/1996	Present
Computer methods in applied mechanics and engineering	ScienceDirect (CRKN)	1/1/1995	Present
Computer Science	DOAJ: Directory of Open Access Jc	1/1/2004	Present
Computer-aided civil and infrastructure engineering	Wiley Online Library (CRKN)	1/1/1997	Present
Computers & electrical engineering	ScienceDirect (CRKN)	1/1/1995	Present
Computers & industrial engineering	ScienceDirect (CRKN)	1/1/1995	Present
Computers & Structures	ScienceDirect (CRKN)	1/3/1995	Present
Computers and geotechnics	ScienceDirect (CRKN)	1/1/1995	Present
Concurrent Engineering: Research and Applications	Sage Premier (CRKN)	3/1/1993	Present
e-Informatica Software Engineering Journal (ISEJ)	DOAJ: Directory of Open Access Jc	1/1/2007	Present
Engineering with Computers	SpringerLINK Archive (CRKN)	3/1/1985	Present
International Journal Bioautomation	DOAJ: Directory of Open Access Jc	1/1/2010	Present
International Journal of Computer Science and Engineering Survey	DOAJ: Directory of Open Access Jc	1/1/2010	Present
International journal of human-computer studies	ScienceDirect (CRKN)	1/1/1994	Present
International Journal of Microwave and Millimeter-Wave Computer-Aided Engir	Wiley Online Library (CRKN)	1/1/1996	12/31/1997
International Journal of RF and Microwave Computer-Aided Engineering	Wiley Online Library (CRKN)	1/1/1998	Present
International Journal of Robotics Research	Sage Premier (CRKN)	3/1/1982	Present
International Journal on Electrical Engineering and Informatics	DOAJ: Directory of Open Access Jc	1/1/2009	Present
International Journal on Software Tools for Technology Transfer	SpringerLINK (CRKN)	1/1/1997	Present
Journal of Electrical and Computer Engineering	DOAJ: Directory of Open Access Jc	1/1/2007	Present
Journal of Scheduling	SpringerLINK (CRKN)	1/1/2003	Present
Journal of Systems and Software	ScienceDirect (CRKN)	1/1/1995	Present
Medical & Biological Engineering & Computing	SpringerLINK (CRKN)	1/1/1997	Present
Pattern Analysis and Applications (PAA)	SpringerLINK (CRKN)	1/1/1998	Present
Peer-to-Peer Networking and Applications	SpringerLINK (CRKN)	1/1/2008	Present
Photonics and Nanostructures - Fundamentals and Applications	ScienceDirect (CRKN)	12/1/2003	Present

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Title	Package Name	Start Date	End Date
Research in Engineering Design	SpringerLINK (CRKN)	3/1/1989	Present
Scientific Programming	DOAJ: Directory of Open Access Jc	1/1/1992	Present
Serbian Journal of Electrical Engineering	DOAJ: Directory of Open Access Jc	1/1/2003	Present
Surveys in Mathematics and its Applications	DOAJ: Directory of Open Access Jc	1/1/2006	Present
Theory and decision	SpringerLINK (CRKN)	10/1/1970	Present
Transportation Research Part C: Emerging Technologies	ScienceDirect (CRKN)	2/1/1995	Present

APPENDIX 2. Electrical Engineering Journals Available at TRU Library

Title	Package Name	Start Date	End Date
Advances in Electrical and Electronic Engineering	DOAJ: Directory of Open Access Journals	1/1/2002	Present
Advances in Electrical Engineering	DOAJ: Directory of Open Access Journals	1/1/2014	Present
Archives of Electrical Engineering	De Gruyter Open	10/6/2010	Present
Australasian Physical & Engineering Sciences in Medicine	SpringerLINK (CRKN)	1/1/2001	Present
Carpathian Journal of Electrical Engineering	DOAJ: Directory of Open Access Journals	1/1/2010	Present
Computer Science	DOAJ: Directory of Open Access Journals	1/1/2004	Present
Computers & electrical engineering	ScienceDirect (CRKN)	1/1/1995	Present
Electrical Engineering	SpringerLINK (CRKN)	1/1/1912	Present
Electrical Engineering in Japan	Wiley Online Library (CRKN)	1/1/1997	Present
Electrical, Control and Communication Engineering	De Gruyter Open	12/1/2009	Present
Electronics & Communications in Japan. Part 1, Communications	Wiley Online Library (CRKN)	1/1/1997	12/31/2007
Electronics & Communications in Japan. Part 2, Electronics	Wiley Online Library (CRKN)	1/1/1997	12/31/2007
Electronics and Communications in Japan. Part 3, Fundamental Elect	Wiley Online Library (CRKN)	1/1/1997	12/31/2007
IEEE Spectrum	Publisher's Site	1/1/2016	Present
IEEJ Transactions on Electrical and Electronic Engineering	Wiley Online Library (CRKN)	1/1/2006	Present
Indonesian Journal of Electrical Engineering and Informatics	DOAJ: Directory of Open Access Journals	1/1/2013	Present
International Journal of Electrical Engineering Education	SAGE Premier (CRKN)	1/1/1999	Present
International Journal of electrical power & energy systems	ScienceDirect (CRKN)	2/1/1995	Present
International Journal of Robotics Research	SAGE Premier (CRKN)	1/1/1982	Present
International Journal on Electrical Engineering and Informatics	DOAJ: Directory of Open Access Journals	1/1/2009	Present
Journal of Electrical and Computer Engineering	DOAJ: Directory of Open Access Journals	1/1/2007	Present
Journal of Electrical and Electronics Engineering	DOAJ: Directory of Open Access Journals	1/1/2012	Present
Journal of Electrical Engineering	De Gruyter Open	6/7/2011	Present
Journal of Electrical Systems and Information Technology	DOAJ: Directory of Open Access Journals	1/1/2014	Present
Journal of International Council on Electrical Engineering	Taylor & Francis Open	1/1/2011	Present
Journal of Optimization Theory and Applications	SpringerLINK (CRKN)	7/1/1967	Present
Journal of power sources	ScienceDirect (CRKN)	1/1/1995	Present
Research in Engineering Design	SpringerLINK (CRKN)	3./1/1989	Present
Russian Electrical Engineering	SpringerLINK (CRKN)	1/1/2007	Present
Serbian Journal of Electrical Engineering	DOAJ: Directory of Open Access Journals	1/1/2003	Present

APPENDIX 3. Software Engineering Journals Available at TRU

Title	Package Name	Start Date	End Date
Advances in engineering software	ScienceDirect (CRKN)	1/1/1995	Present
Advances in Software Engineering	DOAJ: Directory of Open Access Journals	1/1/2009	Present
Algorithms	DOAJ: Directory of Open Access Journals	1/1/2008	Present
Annals of Software Engineering	SpringerLINK Archive (CRKN)	12/1/1995	12/31/1996
Automated Software Engineering	SpringerLINK (CRKN)	3/1/1994	Present
Baltic Journal of Modern Computing	DOAJ: Directory of Open Access Journals	1/1/2008	Present
Concepts in magnetic resonance	Wiley Online Library (CRKN)	1/1/1996	12/31/2002
Concepts in Magnetic Resonance: Part B, Magnetic Resonance Engin	Wiley Online Library (CRKN)	1/1/2003	Present
CrossTalk: The Journal of Defense Software Engineering	EBSCO Open Access Computer Science Collectio	1/1/1998	Present
e-Informatica Software Engineering Journal (ISEJ)	DOAJ: Directory of Open Access Journals	1/1/2007	Present
Empirical Software Engineering	SpringerLINK (CRKN)	1/1/1996	Present
Evolutionary Intelligence	SpringerLINK (CRKN)	1/1/2008	Present
Genetic Programming and Evolvable Machines	SpringerLINK (CRKN)	1/1/2000	Present
Innovations in Systems and Software Engineering	SpringerLINK (CRKN)	1/1/2005	Present
International Journal on Electrical Engineering and Informatics	DOAJ: Directory of Open Access Journals	1/1/2009	Present
International Journal on Software Tools for Technology Transfer	SpringerLINK (CRKN)	1/1/1997	Present
ISRN Software Engineering	DOAJ: Directory of Open Access Journals	1/1/2012	Present
Journal of Software Engineering Research and Development	SpringerOpen	10/1/2013	Present
Journal of Systems and Software	ScienceDirect (CRKN)	1/1/1995	Present
Peer-to-Peer Networking and Applications	SpringerLINK (CRKN)	1/1/2008	Present
Requirements Engineering	SpringerLINK (CRKN)	3/1/1996	Present
Software and Systems Modeling (SoSyM)	SpringerLINK (CRKN)	1/1/2002	Present