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'Some are born great, some achieve greatness, and some have greatness thrust upon them.'

(Twelfth Night Act 2, Scene 5)


[Teaching and learning](#)

'Cowards die many times before their deaths; the valiant never taste of death but once.'

(Julius Caesar Act 2, Scene 2)


[A decade of inspiration](#)

'A man can die but once.'

(Henry IV, Part 2 Act 3, Part 2)

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[Group effort propels Hill tea](#)

'What's in a name? A rose by any name would smell as sweet.'

(Romeo and Juliet Act 2, Scene 2)


[STEM program prepares you](#)

'Nothing will come of nothing.'

(King Lear Act 1, Scene 1)


[Dr. J. Harley Weston](#)

'There is nothing either good or bad, but thinking makes it so.'

(Hamlet Act 2, Scene 2)

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Contact Us :

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Phone: 306-585-4734

Please see the Faculty & Staff Directory for individual contact information.



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[Group effort propels Hill tea](#)

'What's in a name? A rose by any name would smell as sweet.'

(Romeo and Juliet Act 2, Scene 2)



[STEM program prepares you](#)

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[Dr. J. Harley Weston](#)

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Program Chairs



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Faculty Listing

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The Faculty of Engineering and Applied Science was established in 1973 and, early on, sought to mark itself as a new, progressive engineering school offering unique programs based on the principles of systems engineering.

Systems engineering places the practice of engineering in the context of the systems in which designs operate. An education in systems engineering prepares students to work in the broader context of multi-disciplinary, team design required of modern engineers.

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For General Engineering,

A minimum admission average of 70% - 89.99% is required for admission to the general major



For Major of Choice,

A minimum admission average of 90% is required for admission to the major of choice





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Electronic Systems Engineering



Petroleum Systems Engineering



Software Systems Engineering



Environmental Systems
Engineering



Industrial Systems Engineering



Process Systems Engineering



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Electronic Systems Engineering (ESE)

What is Electronic Systems Engineering?

Electronic Systems Engineering focuses on the integration of electronics, computers, and communication technologies in many different types of systems.

Our Program

The Electronic Systems Engineering (ESE) program at the University of Regina focuses on a core program of analog and digital electronics with specialization streams in: instrumentation and control, telecommunications, micro-electronics, and power and energy.

Software and computer-related courses are part of the electronics core program, allowing students to develop greater facility with both hardware and software.

Graduate with:

- Bachelor of Applied Science (B.A.Sc.) in Electronic Systems Engineering
- Students in Co-operative Education graduate with a B.A.Sc. (Co-op) in Electronic Systems Engineering
- Students in the Internship Program graduate with a B.A.Sc. (Internship) in Electronic Systems Engineering

The ESE program is fully accredited by the Canadian Engineering Accreditation Board.

ESE Graduate Program:

- Master of Engineering (M.Eng.) – project focus or co-op
- Master of Applied Science (M.A.Sc.) – thesis-based
- Doctoral (Ph.D.) program





Environmental Systems Engineering (EVSE)

What is Environmental Systems Engineering?

Our Environmental Systems Engineering (EVSE) program is very popular with students and respected by industry, largely because of its timely combination of environmental concerns and the systems approach to addressing civil and industrial environmental issues. Areas of study include environmental system design and impact and risk assessment.

Our Program

The Environmental Systems Engineering (EVSE) program demonstrates and applies systems engineering principles to environmental issues associated with water resources, air pollution, transportation, industrial development, and waste management.

Graduate with:

- Bachelor of Applied Science (B.A.Sc.) in Environmental Systems Engineering
- Students in Co-operative Education graduate with a B.A.Sc. (Co-op) in Environmental Systems Engineering
- Students in the Internship Program graduate with a B.A.Sc. (Internship) in Environmental Systems Engineering

The EVSE program is fully accredited by the Canadian Engineering Accreditation Board.

EVSE Graduate Program

- Master of Engineering (M.Eng.) – project focus or co-op
- Master of Applied Science (M.A.Sc.) – thesis-based
- Doctoral (Ph.D.) program





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Industrial Systems Engineering (ISE)

What is Industrial Systems Engineering?

The Industrial Systems Engineer becomes an engineering generalist with specialized training in the nature, behaviour, control, and monitoring of engineering systems.

Our Program

The Industrial Systems Engineering (ISE) program is designed to train engineers to organize and effectively utilize the total resources of modern manufacturing and process industries: materials, machinery, facilities, people, and capital.

Graduate with:

- Bachelor of Applied Science (B.A.Sc.) in Industrial Systems Engineering
- Students in Co-operative Education graduate with a B.A.Sc. (Co-op) in Industrial Systems Engineering
- Students in the Internship Program graduate with a B.A.Sc. (Internship) in Industrial Systems Engineering

The ISE program is fully accredited by the Canadian Engineering Accreditation Board.

ISE Graduate Program:

- Master of Engineering (M.Eng.) – project focus or co-op
- Master of Applied Science (M.A.Sc.) – thesis-based
- Doctoral (Ph.D.) program





Process Systems Engineering (PSEng) - Graduate Only

What is Process Systems Engineering?

Process Systems Engineering (PSEng) is a broad category of engineering that deals with the process design for the purpose of converting raw goods to usable end products, including energy. Process engineering looks at the entire process from Point A, which is a raw material, to Point Z, which is the desired end product. It does not necessarily deal with acquiring the raw base material, although knowledge of its acquisition is part of the U of R's systems approach to teaching and research.

Our Program

PSEng is an innovative graduate program in systems engineering. The program prepares students for a career in the process and energy industries.

Graduate with:

- **Master of Applied Science (Thesis-based)**
- **Master of Engineering (Project or Co-op)**



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Petroleum Systems Engineering (PSE)

What is Petroleum Systems Engineering?

Petroleum Systems Engineers develop techniques to efficiently recover oil, gas, and other minerals while reducing environmental impacts using various pollution remediation and greenhouse gas reduction techniques.

Our Program

The Petroleum Systems Engineering (PSE) undergraduate program teaches evaluation, design, and management of technologies used in evaluating reserves and in oil and gas production and treatment. Advanced computer utilization and automation are integrated into the program.

Graduate with:

- Bachelor of Applied Science (B.A.Sc.) in Petroleum Systems Engineering
- B.A.Sc. (Co-op) in Petroleum Systems Engineering
- B.A.Sc. (Internship) in Petroleum Systems Engineering

The PSE program is fully accredited by the Canadian Engineering Accreditation Board.

PSE Graduate Program:

- Master of Engineering (M.Eng.) – project focus or co-op
- Master of Applied Science (M.A.Sc.) – thesis-based
- Doctoral (Ph.D.) program





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Software Systems Engineering (SSE)

What is Software Systems Engineering?

Software Systems Engineers apply computing knowledge to solve real-life problems. They become engineering professionals and leaders in a broad scope of projects. Software Systems Engineers work as software architects, analysts, designers, consultants, and project managers. Our Program

The Software Systems Engineering (SSE) program is designed to give students the knowledge to analyze, design, and develop software operating on many types of computers and microprocessors.

Graduate with:

- Bachelor of Applied Science (B.A.Sc.) in Software Systems Engineering
- Students in Co-operative Education graduate with a B.A.Sc. (Co-op) in Software Systems Engineering
- Students in the Internship Program graduate with a B.A.Sc. (Internship) in Software Systems Engineering

The SSE program is fully accredited by the Canadian Engineering Accreditation Board.

SSE Graduate Program:

- Master of Engineering (M.Eng.) – project focus or co-op
- Master of Applied Science (M.A.Sc.) – thesis-based
- Ph.D. in General Engineering





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Electronic Systems Engineering



Petroleum Systems Engineering



Software Systems Engineering



**Environmental Systems
Engineering**



Industrial Systems Engineering



Process Systems Engineering



Potential Careers for ESE Graduates

What sort of career could you have?

Electronic Systems Engineers typically work in the following areas or hold the following job titles:

- Avionics
- Communications
- Computer Design
- Electronic Systems Engineer
- Engineering Management
- Quality Assurance
- Radio & Television
- Telecommunications
- Test Engineer
- Hardware Systems Engineer
- Instrumentation
- Manufacturing & Processing
- Programming
- Power Electronics





Potential Careers for EVSE Graduates

What sort of career could you have?

Environmental Systems Engineers typically work in the following areas or hold the following job titles:

- Air Quality Engineer
- Engineering Project Manager
- Environmental Consultant
- Environmental Engineer
- Environmental Impact Assessment
- Geotechnical Engineer
- Geoenvironmental Engineer
- Hydraulic Engineer
- Irrigation Engineer
- Mining engineer
- Pollution Control Engineer
- Transportation Engineer
- Waste Management Engineer
- Water Resource Manager





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Potential Careers for ISE Graduates

What sort of career could you have?

Industrial Systems Engineers typically work in the following areas or hold the following job titles:

- Advanced Manufacturing
- Automated Systems
- Design Engineer
- Ergonomics Engineer
- Facilities & Equipment Engineer
- Industrial Engineer
- Manufacturing Engineer
- Petroleum Industries
- Sales Engineer
- Utility Services





Potential Careers for PSE Graduates

What sort of career could you have?

Petroleum Systems Engineers typically work in the following areas or hold the following job titles:

Upstream career:

- Exploration engineer
 - Well logging engineer
 - Petrophysicist
 - Drilling engineer
 - Completions engineer
 - Mud engineer
 - Exploitation engineer
 - Reservoir engineer
- Downstream career:**
- Transportation engineer
 - Pipeline engineer
 - Sales/marketing engineer
 - Process engineer
 - Refining engineer



**Potential Careers for PSEng Graduates****What sort of career could you have?****Process Systems Engineers typically work in the following areas or hold the following job titles:**

- Design Engineer
- Energy Engineer
- Materials Engineer
- Process Engineer
- Production Engineer
- Professor of Engineering
- Project Engineer
- Refining Engineer
- Research Engineer





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Potential Careers for SSE Graduates

What sort of career could you have?

Software Systems Engineers typically work in the following areas or hold the following job titles:

- Design Engineer
- Embedded Systems Engineer
- Integration Engineer
- Multimedia Engineer
- Software Developer
- Software Process Engineer
- Software Project Manager
- Software Quality Engineer
- Software Systems Engineer





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Electronic Systems Engineering



Petroleum Systems Engineering



Software Systems Engineering



Environmental Systems Engineering



Industrial Systems Engineering



Process Systems Engineering





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Electronic System Engineering Program Planning Sheet -																														
Bachelor of Applied Science in Electronic Systems Engineering (ESE) 2018-19 Program 9 electives are required (prerequisites are in brackets)																														
1. Communications ENEL 393 (ENEL 390) ENEL 487 (ENEL 387, CS 210) ENEL 492 (ENEL 393) ENEL 489 (ENEL 384) And 5 courses from the approved list																														
2. Micro-Electronics ENEL 389 (ENEL 380) ENEL 472 (ENEL 371) ENEL 484 (ENEL 389) ENEL 482 (ENEL 472) And 5 courses from the approved list																														
3. Control 4. Power ENEL 389 (ENEL 380) ENEL 472 (ENEL 371) ENEL 484 (ENEL 389) ENEL 482 (ENEL 472) And 5 courses from the approved list																														
Approved list includes Technical, Software, and Risk and Industrial Safety Technical Electives <table border="1"> <tr> <td>ENEL 389</td> <td>ENEL 393</td> <td>ENEL 472</td> <td>ENEL 482</td> </tr> <tr> <td>ENEL 484</td> <td>ENEL 487</td> <td>ENEL 489</td> <td>ENEL 494</td> </tr> <tr> <td>ENEL 495</td> <td>ENEV 261</td> <td>ENIN 253</td> <td>ENSE 481</td> </tr> </table> Software Electives (may choose one) <table border="1"> <tr> <td>CS 215</td> <td>CS 330</td> <td>CS 340</td> <td>CS 350</td> <td>CS 372</td> </tr> <tr> <td colspan="5">CS 375 or any ENSE class except ENSE 477</td> </tr> </table> Risk and Industrial Safety Electives (may choose one) <table border="1"> <tr> <td>ENEV 415</td> <td>ENGG 433</td> <td>ENIN 441</td> </tr> </table> Social Science and Humanities Elective (choose one) Any Faculty of Arts course Natural Science Elective (choose one from) Astronomy, Biology, Biochemistry, Geology, Physics, Chemistry (CHEM 100 not permitted)						ENEL 389	ENEL 393	ENEL 472	ENEL 482	ENEL 484	ENEL 487	ENEL 489	ENEL 494	ENEL 495	ENEV 261	ENIN 253	ENSE 481	CS 215	CS 330	CS 340	CS 350	CS 372	CS 375 or any ENSE class except ENSE 477					ENEV 415	ENGG 433	ENIN 441
ENEL 389	ENEL 393	ENEL 472	ENEL 482																											
ENEL 484	ENEL 487	ENEL 489	ENEL 494																											
ENEL 495	ENEV 261	ENIN 253	ENSE 481																											
CS 215	CS 330	CS 340	CS 350	CS 372																										
CS 375 or any ENSE class except ENSE 477																														
ENEV 415	ENGG 433	ENIN 441																												
Total credit hours 136 (46 courses) Non coop or internship term sequencing <table border="1"> <tr> <td>Fall</td> <td>Winter</td> <td>Spring</td> <td>Fall</td> <td>Winter</td> <td>Spring</td> </tr> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> </tr> <tr> <td>Fall</td> <td>Winter</td> <td>Spring</td> <td>Fall</td> <td>Winter</td> <td>Spring</td> </tr> <tr> <td>5</td> <td>7</td> <td>6</td> <td>8</td> <td>9</td> <td></td> </tr> </table>						Fall	Winter	Spring	Fall	Winter	Spring	1	2	3	4	5	6	Fall	Winter	Spring	Fall	Winter	Spring	5	7	6	8	9		
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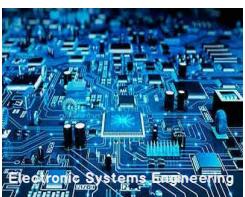
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Petroleum Systems Engineering



Software Systems Engineering



Environmental Systems Engineering



Industrial Systems Engineering



Process Systems Engineering





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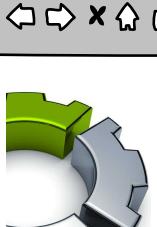
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Completion of Classes	Deadline for Application	Approval from Executive Council	Convocation Ceremony
December	November 30	February	Spring
April	January 31	May	Spring
Spring/Summer	July 31	September	Fall

Dates

Exact dates for Executive Council can be found [here](#).

Exact dates for the Convocation Ceremony can be found [here](#).





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 - Software Systems Engineering
 - Process Systems Engineering

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The Faculty of Engineering and Applied Science maintains an active and robust research portfolio. Please see individual faculty members' profiles for specific research interests.

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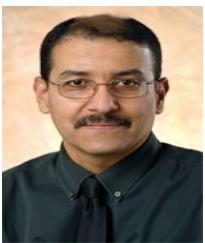
Professors



Fanhua (Bill) Zeng
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Associate Dean; Graduate Studies, Program Chair; Professor, Petroleum Systems Engineering

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Fax: 306-585-4855

Research interests
Heavy oil EOR, Tight oil/gas reservoir development, High performance reservoir simulation, Transient pressure analysis and reservoir characterization, Non-Darcy flow in porous media, Unconventional gas reservoir development, CO₂ EOR & geo-sequestration



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Professor, Petroleum Systems Engineering

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Research interests
Methods for the evaluation and prediction of hydrocarbon reservoir performance; Reservoir description and reservoir management; Development and application of methods of analysis and interpretation of well tests and production data; Theoretical/mathematical modeling studies of multiphase flow in porous media; Evaluation and prediction of performance for oil and gas wells; Characterization of conventional/unconventional oil and gas; Petroleum reservoir engineering





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Electronic Systems Engineering



Petroleum Systems Engineering



Software Systems Engineering



Environmental Systems
Engineering



Industrial Systems Engineering



Process Systems Engineering





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Electronic Engineering Research Topics

Cyber-Physical Systems (CPS)

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Intelligent Transportation Systems (ITS)

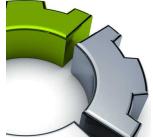
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Vehicle-to-Grid Systems (V2G)

10. The following table shows the number of hours worked by 1000 employees in a company.

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Environmental Engineering Research Topics

Erosion and sediment transport in rivers

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GIS application in hydrological

Contact:
Phone : (306) - XXX - Home
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Hydraulic engineering

Hydrologic Engineering

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Industrial Engineering Research Topics

Carbon Dioxide Capture from Flue Gases from Industrial Sources

For more information about the study, please contact Dr. John Smith at (555) 123-4567 or via email at john.smith@researchinstitute.org.

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Greenhouse Gas Emissions

26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

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Reaction Kinetics

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Petroleum Engineering Research Topics

Heavy Oil and Multiphase Equilibrium Testing

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Reservoir Fluid Characterization

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Wax and Hydrate Precipitation

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Process Engineering Research Topics

Biodiesel Production Technology

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CO₂ capture and Greenhouse gas control technology

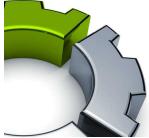
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Natural Gas Purification

SEARCH FOR CHIRALITY

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Software Engineering Research Topics

Education Technology & eLearning

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Artificial Intelligence (AI) and Machine

Control Information (VTP) and Machine

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Software Engineering Methodologies (Agile, Scrum, Lean)

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