

[About](#) [Admissions](#) [Faculties & Academics](#) [Help](#) [Contact](#)[search](#)[Future](#)[Current](#)[Staff](#)[Resources](#)[Undergraduate](#)[Undergraduate admissions](#)

View programs and admission requirements for high school and transfer students

[Come for a Visit](#)[Come for a visit](#)

Take a campus tour and learn what it's like to be a Waterloo student

[Graduate](#)[Graduate studies](#)

Discover more than 180 master's and doctoral programs

Connect with us on social media



University  
of Regina[About](#) [Admissions](#) [Faculties & Academics](#) [Help](#) [Contact](#) search

## Browse our Programs

### Undergraduate



#### Undergraduate admissions

View programs and admission requirements for high school and transfer students

### Graduate



#### Come for a visit

Take a campus tour and learn what it's like to be a Waterloo student

University  
of Regina[About](#) [Admissions](#) [Faculties & Academics](#) [Help](#) [Contact](#) search[◀◀](#) [◀](#) [▶](#) [▶▶](#) search

[ABOUT](#)  
[FINANCE](#)  
[HOUSING](#)  
[SCHOLARSHIP](#)  
[MAP INFO](#)  
[CONTACT US](#)

## Housing Service

### Housing Service Description

Housing Services guarantees a spot in our Residence to all new students admitted to the University of Regina who apply for housing by June 1. You can apply for housing through the online application.



### Food Service:

Students living in dorm-style accommodations at La Résidence, Ktšik Towers, Paskwāw Tower (formerly North Residence) and Wakpá Tower...



### Fee

Rates below are effective Fall 2018-Winter 2019 semesters.

### Quick Links

[Others](#)



University  
of Regina

About Admissions Faculties & Academics Help Contact



UNDERGRADUATE ADMISSIONS

Undergraduate Admission Home

Programs

Programs

Admissions



→

Soft

Software Engineering  
Electrical Electronics Engineering  
Petroleum Engineering



University  
of Regina

About Admissions Faculties & Academics Help Contact



UNDERGRADUATE ADMISSIONS

Undergraduate Admission Home  
Programs →  
Admissions →

DISCOVER our 100+ programs  
LEARN MORE

TIPS for your Admissions Information Form  
LEARN MORE

TIPS for paying for university  
LEARN MORE

What to expect in CO-OP  
LEARN MORE

VISIT our campus  
LEARN MORE

University  
of Regina[About](#) [Admissions](#) [Faculties & Academics](#) [Help](#) [Contact](#)

UNDERGRADUATE ADMISSIONS

[Undergraduate Admission Home](#)[Software Engineering](#)[Programs](#)[Apply Now!!!](#)[Admissions](#)**About**

Whether you want to create a VR training program for surgeons, the next "swipe right" dating app, or an autonomous car, software engineers have endless career options in today's tech-enabled

**Admissions and Requirements**

I am a

▼[View Requirements](#)**Courses Offered** search

ENSE 352

ENEI 380

University  
of Regina[About](#) [Admissions](#) [Faculties & Academics](#) [Help](#) [Contact](#)

UNDERGRADUATE ADMISSIONS

[Undergraduate Admission Home](#)[Software Engineering](#)[Apply Now!!!](#)[Programs](#) [Admissions](#) **Requirements** **Admission average**

Individual selection from the mid-90s.

[Learn more about the admission averages required to have a competitive](#)

**Required courses**

Advanced Functions 4U -- A minimum grade of 70 is required

Calculus and Vectors 4U -- A minimum grade of 70 is required

Chemistry 4U -- A minimum grade of 70 is required

English 4U (ENG4U) -- A minimum grade of 70 is required

Physics 4U -- A minimum grade of 70 is required

**Recommended courses**

University  
of Regina[About](#) [Admissions](#) [Faculties & Academics](#) [Help](#) [Contact](#)

UNDERGRADUATE ADMISSIONS

[Undergraduate Admission Home](#)[Software Engineering](#)[Programs](#) [Admissions](#) [Download application form](#) [Application form](#)[upload form](#)[Submit](#)

University  
of Regina[About](#) [Admissions](#) [Faculties & Academics](#) [Help](#) [Contact](#) [search](#) [search](#)

- [ABOUT](#)
- [FINANCE](#)
- [HOUSING](#)
- [SCHOLARSHIP](#)
- [MAP INFO](#)
- [CONTACT US](#)

### Information about Programs

[Courses Offered](#)[Undergraduate](#)[Graduate Studies and Research](#)[Tuition Fee](#)[Undergraduate International Student](#)[Undergraduate Domestic Student](#)[Graduate Student](#)

### Quick Links

[Others](#)

University  
of Regina[About](#) [Admissions](#) [Faculties & Academics](#) [Help](#) [Contact](#) [search](#) [search](#)

- [ABOUT](#)
- [FINANCE](#)
- [HOUSING](#)
- [SCHOLARSHIP](#)
- [MAP INFO](#)
- [CONTACT US](#)

### [Undergraduate International Student Tuition Fee Documents](#)

[2019 Spring/Summer Undergraduate International Fee Schedule](#)[2019 Winter Undergraduate International Fee Schedule](#)[2018 Fall Undergraduate International Fee Schedule](#)[more historical fee schedule](#)

### [Quick Links](#)

[Others](#)

University  
of Regina[About](#) [Admissions](#) [Faculties & Academics](#) [Help](#) [Contact](#) [search](#) [search](#)[ABOUT](#)[FINANCE](#)[HOUSING](#)[SCHOLARSHIP](#)[MAP INFO](#)[CONTACT US](#)

## Undergraduate Domestic Student Tuition Fee Documents

[2019 Spring/Summer Undergraduate Domestic Fee Schedule](#) [2019 Winter Undergraduate Domestic Fee Schedule](#) [2018 Fall Undergraduate Domestic Fee Schedule](#) [more historical fee schedule](#)

### Quick Links

[Others](#)

University  
of Regina[About](#) [Admissions](#) [Faculties & Academics](#) [Help](#) [Contact](#)

search



search

<a href="#">ABOUT</a>
<a href="#">FINANCE</a>
<a href="#">HOUSING</a>
<a href="#">SCHOLARSHIP</a>
<a href="#">MAP INFO</a>
<a href="#">CONTACT US</a>

### Undergraduate Domestic Student Tuition Fee Documents

[2019 Spring/Summer Graduate - Faculty of Graduate Studies](#) [2019 Winter Graduate - Faculty of Graduate Studies](#) [2018 Fall Graduate - Faculty of Graduate Studies](#) [more historical fee schedule](#)

### Quick Links

[Others](#)

University  
of Regina[About](#) [Admissions](#) [Faculties & Academics](#) [Help](#) [Contact](#)[Q](#) [search](#)[Q](#) [search](#)[ABOUT](#)[FINANCE](#)[HOUSING](#)[SCHOLARSHIP](#)[MAP INFO](#)[CONTACT US](#)

## Welcome to the Faculty of Engineering and Applied Science

Engineering and the applied sciences represent a rewarding area of study that blends creativity and imagination with the science and mathematics of design and problem solving and the human factors of personnel and resource management, planning, and organization. If you're interested in designing solutions to life's problems, big or small, then engineering just might be the program for you!

On our website, you'll find answers to questions like: What is engineering? What classes should I take in high school? How do I register for classes? What programs are offered? What sort of career can I have? What else can I get involved in as an engineering student? What is accreditation and are U of R's Engineering programs accredited?...and many others. Please, browse our website for answers to all these questions and more. Also, if you'd like to speak to someone about our programs or other questions, feel free to contact us.

### Quick Links

#### Others

University  
of Regina[About](#) [Admissions](#) [Faculties & Academics](#) [Help](#) [Contact](#) [search](#) [search](#)

<a href="#">ABOUT</a>
<a href="#">FINANCE</a>
<a href="#">HOUSING</a>
<a href="#">SCHOLARSHIP</a>
<a href="#">MAP INFO</a>
<a href="#">CONTACT US</a>

## Scholarship Requirements

### Scholarships & Awards

Area(s) of Study:

Biology, Chemistry and Biochemistry, Computer Science, Engineering, Geology, Mathematics and Statistics, Physics

### Eligibility Criteria

To be considered eligible for support, as of the application deadline date, you must:

### Quick Links

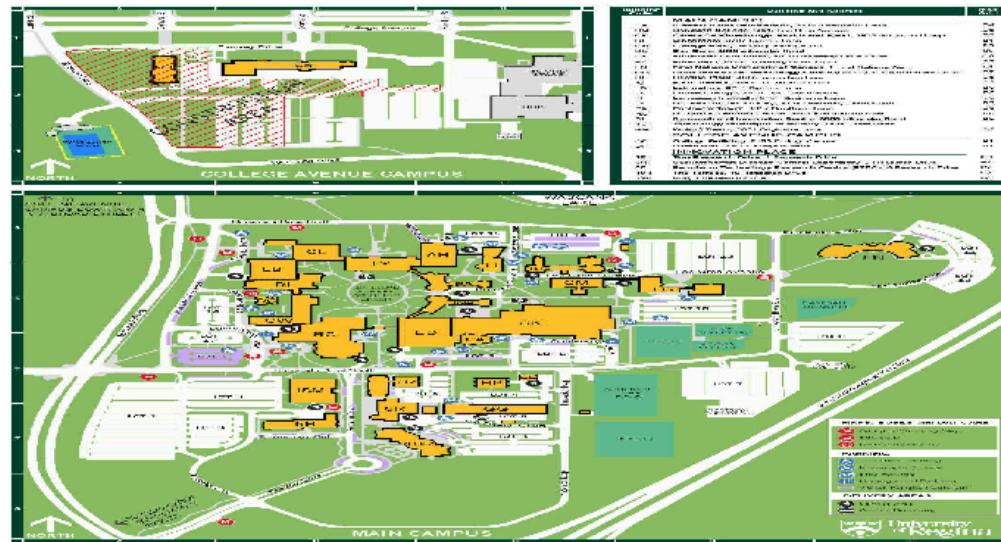
### Others

University  
of Regina[About](#) [Admissions](#) [Faculties & Academics](#) [Help](#) [Contact](#)[Q](#) search[Q](#) search

[ABOUT](#)  
[FINANCE](#)  
[HOUSING](#)  
[SCHOLARSHIP](#)  
[CONTACT US](#)

## Map Info

### Campus Map

[University of Regina Official Campus Map](#)

### Quick Links

[Others](#)

University  
of Regina[About](#) [Admissions](#) [Faculties & Academics](#) [Help](#) [Contact](#) [search](#) [search](#)

- [ABOUT](#)
- [FINANCE](#)
- [HOUSING](#)
- [SCHOLARSHIP](#)
- [MAP INFO](#)
- [CONTACT US](#)

### Contact - Faculty of Engineering

[By Email](#)[Book a Visit](#)[By Social Media](#)

### Quick Links

#### Others

[About](#) [Admissions](#) [Faculties & Academics](#) [Help](#) [Contact](#)[Q search](#)[Q search](#)

[ABOUT](#)  
[FINANCE](#)  
[HOUSING](#)  
[SCHOLARSHIP](#)  
[CONTACT US](#)

Faculty of Engineering & Applied Science  
Education Building, ED 409  
Phone: 306-585-4734  
Please see the [Faculty & Staff Directory](#) for individual contact information.  
Items indicated with an (\*) are required.

\* **First Name**

\* **Last Name**

\* **E-mail Address**

\* **Re-enter your E-mail Address**

\* **Subject**

\* **Message**

**Submit**

[Quick Links](#)

[Others](#)

[About](#) [Admissions](#) [Faculties & Academics](#) [Help](#) [Contact](#) search search

<a href="#">ABOUT</a>
<a href="#">FINANCE</a>
<a href="#">HOUSING</a>
<a href="#">SCHOLARSHIP</a>
<a href="#">MAP INFO</a>
<a href="#">CONTACT US</a>

### Book a Visit Form

First Name: Last Name: Email: Text: 

### Quick Links

[Others](#)

University  
of Regina[About](#) [Admissions](#) [Faculties & Academics](#) [Help](#) [Contact](#)[search](#)[search](#)

- [ABOUT](#)
- [FINANCE](#)
- [HOUSING](#)
- [SCHOLARSHIP](#)
- [MAP INFO](#)
- [CONTACT US](#)

#### Follow us - Social Media

**University of Regina**

@UofRegina

uofreginaofficial [Follow](#)**University of Regina**

@UniversityofRegina

#### Quick Links

#### Others



http://

[About](#) [Admissions](#) [Faculties & Academies](#) [Help](#) [Contact](#)

Future	Current	Staff	Resources
Forms And Policies	Staff Directory	Safety & Training Courses	
<u>Frequently Used</u> <a href="#">Time Conflict Override form.pdf</a>		<u>Frequently Used</u> <a href="#">WHMIS Test</a>	

Connect with us on social media





http://



University  
of Regina

About Admissions Faculties & Academics Help Contact



## Employment Policies and Forms

### Employee Records:

[Legal Name and name change.pdf](#)



http://



University  
of Regina

About Admissions Faculties & Academies Help Contact



## Forms/Policies



Employment Forms & Policies

Registration Forms & Policies

Safety & Travel Forms



http://



About Admissions Faculties & Academics Help Contact



## Forms/Policies



### Registration Forms & Policies



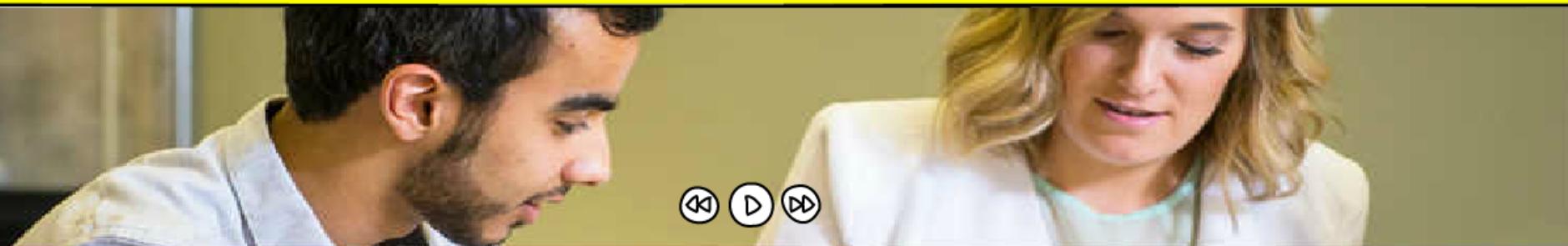
Pre-req Waiver Form

Time Conflict Approval Form

Selection of Major Form



http://

[About](#) [Admissions](#) [Faculties & Academies](#) [Help](#) [Contact](#)

## Staff Directory



Trevor Douglas  
B.A.Sc., P.Eng.  
Interim Program Chair, Lab Instructor, Software Systems Engineering

Office: ED 473  
E-mail: [trevordouglas@uregina.ca](mailto:trevordouglas@uregina.ca)  
Phone: 306-585-5269  
Fax: 306-585-4855  
Website:

<http://uregina.ca/~douglatr/>



Faculty of Engineering

About Admissions Faculties & Academies Help Contact



Future

Current

Staff

Resources

## UNDERGRADUATE PROGRAMS



[programs ▾](#)



[Forms](#)



[Info](#)



Faculty of Engineering

[About](#) [Admissions](#) [Faculties & Academics](#) [Help](#) [Contact](#)[Current Student](#) | [Programs](#)

Electronic Systems Engineering



Environmental Systems Engineering



Industrial Systems Engineering



Petroleum Systems Engineering



Software Systems Engineering



Process Systems Engineering(Grad Program)

[◀◀](#) [◀](#) [▶](#) [▶▶](#)[Current Student](#) | [Programs](#) | [Software Systems Engineering](#)**Programs**[Electronic Systems Engineering \(ESE\)](#) >[Environmental Systems Engineering \(EVSE\)](#) >[Industrial Systems Engineering \(ISE\)](#) >[Petroleum Systems Engineering \(PSE\)](#) >[Software Systems Engineering \(SSE\)](#) >[Process Systems Engineering \(PSEng\)](#) >**Program Year 1**

Semester 1 - Fall

Semester 2 - Winter

**Program Year 2**

Semester 7 - Fall

Semester 8 - Winter

**Program Year 3**

Semester 5 - Fall

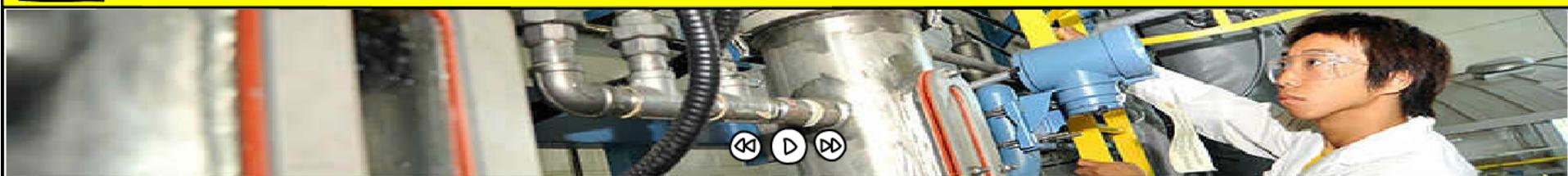
Semester 6 - Winter

Semester 7 - Summer

**Program Year 4**

Semester 3 - Fall

Semester 4 - Winter


[Current Student](#) | [Courses](#) | [Software Systems Engineering](#) | [Semester 6](#)

Programs
<a href="#">Electronic Systems Engineering (ESE)</a> >
<a href="#">Environmental Systems Engineering (EVSE)</a> >
<a href="#">Industrial Systems Engineering (ISE)</a> >
<a href="#">Petroleum Systems Engineering (PSE)</a> >
<a href="#">Software Systems Engineering (SSE)</a> >
<a href="#">Process Systems Engineering (PSEng)</a> >

Section	Day	Time	Instructor	Exam Date	Delivery
<b><u>ENSE 350 - Mathematical Programming for Software Engineers</u></b>					
Fundamental concepts of discrete mathematics (definitions, proofs, sets), discrete structures (graphs, state machines, modular arithmetic), algorithm complexity models, and numerical methods in engineering. ***Prerequisite: Math 110, 122 and CS 210***					
001	WF	1:00pm - 2:15pm	Abdul Bais	26-APR-19	
081	W	10:00am - 11:15am	Abdul Bais		
091	M	08:30am - 11:15am	Trevor Douglas		
092	F	2:30pm - 5:15pm	Trevor Douglas		
<b><u>ENSE 470 - Software Systems Design</u></b>					
Detailed software design and construction in depth. In-depth coverage of design patterns and refactoring. Introduction to formal approaches to design. Analysis of designs based on internal quality criteria. Performance and maintainability improvement. Reverse engineering. Disciplined approaches to design change. ***Prerequisites: ENSE 374***					
001	TR	11:30am - 12:45pm	Kin-Choong Yow	23-APR-19	
091	M	11:30am - 2:15pm	Trevor Douglas		
092	T	2:30pm - 5:15pm	Trevor Douglas		
<b><u>ENSE 471 - User Interface Programming</u></b>					
Psychological principles of human-computer interaction. Evaluation of user interfaces. Usability engineering. Task analysis, user-centered design, and prototyping. Conceptual models and metaphors. Software design rationale. Design of windows, menus, and commands. Voice and natural language I/O. Response time and feedback. Color, icons, and sound. Internationalization and localization. User interface architectures and APIs. Case studies and project. ***Prerequisites: ENSE 374***					
001	MW	08:30am - 09:45am	Timothy Maciąg	15-APR-19	
091	R	08:30am - 11:15am	Trevor Douglas		
092	R	2:30pm - 5:15pm	Trevor Douglas		