

OFFICE OF THE PROVOST AND VICE-PRESIDENT, ACADEMIC

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# MEMORANDUM ATTENTION Senate DATE December 8, 2023 FROM Peter Hall, Chair PAGES 1/2 Senate Committee on Undergraduate Studies Hereitage RE: Course Changes (SCUS 23-104) Hereitage

# For information:

Acting under delegated authority at its meeting of December 7, 2023 SCUS approved the following curriculum revisions effective Fall 2024.

## a. Faculty of Applied Sciences

## 1. School of Computing Science

(i) Prerequisite changes for CMPT 353 and 478

# 2. School of Mechatronic Systems Engineering (SCUS 23-91)

- (i) Description and prerequisite changes for MSE 220 (Fall 2024)
- (ii) Course number, title, units, description, prerequisite and equivalent statement changes for MSE 221 (*Spring 2025*)
- (iii) Description and prerequisite changes for MSE 222 (Fall 2025)
- (iv)Course number, prerequisite and equivalent statement changes for MSE 223 (Fall 2025)
- (v) Title, description, prerequisite changes and equivalent statement changes for MSE 280 (Fall 2025)
- (vi)Units change for MSE 310 (Fall 2024)
- (vii) Title, units and prerequisite changes for MSE 312 (Fall 2026)
- (viii) Prerequisite and equivalent statement change for MSE 321(Fall 2026)
- (ix)Prerequisite change for MSE 320 and 381(Fall 2026)
- (x) Title, units, description and prerequisite changes for MSE 352 (Fall 2026)
- (xi)Prerequisite change for MSE 250 (Fall 2025)

# **b. Beedie School of Business**

(i) Description and prerequisite change for BUS 479

(ii) Deletion of BUS 459

# c. Faculty of Communication, Art and Technology

- 1. Publishing Program
  - (i) Description changes for PUB 480

# d. Faculty of Science

- 1. <u>Department of Earth Sciences</u>
  - (i) Description and prerequisite change for EASC 204
- 2. Department of Molecular Biology and Biochemistry
  - (i) Title changes for MBB 445

# 3. Department of Statistics and Actuarial Sciences

- (i) Units and corequisite changes for STAT 260, 310 and 360
- (ii) Deletion of STAT 261, 311 and 361
- (iii) Prerequisite change for STAT 350, 403, 445, 452, 475 and 485

Senators wishing to consult a more detailed report of curriculum revisions may do so on the Senate Docushare repository at <a href="https://docushare.sfu.ca/dsweb/View/Collection-12682">https://docushare.sfu.ca/dsweb/View/Collection-12682</a>.

SFU	SENATE COMMIT UNDERGRADUAT	TEE ON E STUDIES		COURSE M	ODIFICATION FORM Page 1 of 2
COURSE SU	J <b>BJECT</b> C	MPT NUMBER	353	<b>TITLE</b> Comput	ational Data Science
TYPE OF CH	ANGES. Plea	se type 'X' for the ap	propria	te revision(s):	
Course number		Units		Prerequisite	$\boxtimes$
Title		Description		Equivalent Statement	

**WORDING/DESCRIPTION EDITS.** Indicate deleted or changed text using strike through, indicate added or new text using <u>underline</u>. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under <u>Information about</u> specific course components if changing equivalent statement(s).

Basic concepts and programming tools for handling and processing data. Includes data acquisition, cleaning data sources, application of machine learning techniques and data analysis techniques, large-scale computation on a computing cluster. Prerequisite: CMPT 225 and (STAT 101 BUS 232, STAT 201, STAT 203, STAT 205, STAT 270, STAT 271, ENSC 280, or MSE 210 or SEE 241), with a minimum grade of C-.

## **EFFECTIVE TERM AND YEAR FOR CHANGES**

Fall, Spring, Summer and year (please enter in textbox)

**RATIONALE** (must be included)

Remove course that is no longer offered and replace with equivalent courses from BUS and STAT.

	UDJECI		470	Computing (3)
ГҮРЕ OF CI	IANGES. PI	ease type 'X' for the apj	propriate re	vision(s):
Course number		Units		Prerequisite 🛛
Title		Description		Equivalent 🗆 Statement
ndicate ado allows, drag expand. Plea specific cou Current to faculty an quantum	beschipt led or new the endpo ase review rse compor ppics in adv d student in walk, system system sim	text using <u>underline</u> . If int of the text box to ma the "Equivalency staten <u>nents</u> if changing equiva- ranced quantum algorith nterest. Possible topics ms of linear equations, a ulation, quantum error	you need to ake it bigger nents" sectional alent statem hms and relation include the adiabatic que correction,	anged text using <del>strike through</del> , e enter more text than the box r, as it will not automatically on under <u>Information about</u> nent(s). ated issues depending on hidden subgroup problem, nantum computing, quantum circuits and

**EFFECTIVE TERM AND YEAR FOR CHANGES** Fall, Spring, Summer and year (please enter in textbox)



**RATIONALE** (must be included)

Correction to previous entry. Graduate courses would not apply as pre-requisites for undergraduate courses.

SCUS	23-91a
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SFU	SENATE COMMITT UNDERGRADUATE	EE ON STUDIES		COURSE MODIFICATION FORM Page 1 of 2	1
COURSE SU	BJECT MS	E NUMBER	220	TITLE Engineering Materials	
TYPE OF CH	ANGES. Pleas	e type 'X' for the app	oropriate	evision(s):	
Course number		Units		Prerequisite 🛛	
Title		Description	$\boxtimes$	Equivalent 🗆 Statement	
<b>WORDING/I</b> indicate adde allows, drag expand. Pleas	DESCRIPTION ed or new text the endpoint of se review the	<b>SEDITS.</b> Indicate de using <u>underline</u> . If <u>t</u> of the text box to ma "Equivalency staten	eleted or c you need ike it bigge nents" sec	nanged text using <del>strike through</del> , o enter more text than the box er, as it will not automatically cion under <u>Information about</u>	

specific course components if changing equivalent statement(s).

Materials, their structures, properties and performance; crystal structures and instruments for structure determination; polymers, ceramics, and composites; quality control and reliability. <u>Engineering application of materials</u>.

Prerequisite: CHEM 120 or 121 ; PHYS 140 or 120

#### **EFFECTIVE TERM AND YEAR FOR CHANGES**

Fall, Spring, Summer and year (please enter in textbox)



**RATIONALE** (must be included)

Include additional material within this course. PHYS 140 is no longer required as a pre-req.

COURSE SI	UBJECT	MSE N	IUMBER	221	<b>TITLE</b> Statics a	ind Strength	n of Mat
Г <b>YPE OF C</b> H	IANGES. I	Please type 'X' fo	r the appr	ropriate rev	rision(s):		
Course number	$\boxtimes$	Units		$\boxtimes$	Prerequisite	$\boxtimes$	
Title	$\boxtimes$	Desci	ription	$\boxtimes$	Equivalent Statement	$\boxtimes$	
MSE <del>221</del> <u>2</u> Covers fur	<u>24</u> - <del>Static</del> ndamental	s and Strength c	<del>of Material</del> tics and St	<del>ls (4)</del> <u>Stren</u> trength of N	gth of Materials (3) 4aterials. Statics: 2	D and 3D	
torce and Analysis o centroids strain, axi and combi stresses, M	<u>f statically</u> and mom al loading ined loadi Johr's Cire	<del>ystems. equilibr 7 determinate ar</del> ents of inertia. <del>S</del> , torsion, pure b ng, deflection of <u>cle.</u>	turn of rig a <u>d indeter</u> trength of ending, ar beams. <del>, a</del>	<del>id bodies, a minate stru f Materials: nalysis and <del>nd</del> <u>T</u>transfo</del>	<del>inalysis of structur ictures,</del> distributed l <del>i</del> ntroduction to st design of beams fo ormation of stresse	<del>es,</del> l forces, ress and r bending es <del>., principle</del>	2
Analysis o centroids strain, axi and combi stresses, M Prerequisi Students v course for	f <u>statically</u> and mom al loading ined loadi <u>Iohr's Circ</u> ite: <del>PHYS</del> vith credi further ci	<del>ystems. equilibr <u>7 determinate ar</u> ents of inertia. <del>S</del> , torsion, pure b ng, deflection of <u>cle.</u> <del>140,</del> MATH 152; t for <u>MSE 221,</u> S redit.</del>	tum of rig nd indeter trength of ending, ar beams. <del>, a</del> and MSE EE 221, EI	<del>id bodies, a <u>minate stru</u> f Materials: nalysis and <del>nd</del> <u>T</u>transfo <u>103.</u> NSC 281 or</del>	<del>inalysis of structur</del> <u>ictures,</u> distributed I <del>i</del> ntroduction to st design of beams fo ormation of stresse ENSC 385 may not	<del>es,</del> I forces, ress and r bending es: <u>, principle</u> take this	2
Analysis o centroids strain, axi and combi <u>stresses, M</u> Prerequisi Students v course for	f <u>statically</u> and mom al loading ined loadi <u>Aohr's Circ</u> ite: <del>PHYS</del> ite: <del>PHYS</del> vith credi further ci	<del>ystems. equilibr z determinate ar</del> ents of inertia. <del>S</del> , torsion, pure b ng, deflection of <u>cle.</u> <del>140,</del> MATH 152; t for <u>MSE 221,</u> S redit.	tum of rig nd indeter trength of ending, ar beams, a beams, a and MSE EE 221, EI	<del>id bodies, a <u>minate stru</u> f Materials: nalysis and <del>nd</del> <u>T</u>transfo <u>103.</u> NSC 281 or</del>	<del>inalysis of structur i<u>ctures,</u> distributed I<del>i</del>ntroduction to st design of beams fo ormation of stresse ENSC 385 may not</del>	<del>es,</del> I forces, ress and r bending es <del>., principle</del>	2



Fall, Spring, Summer and year (please enter in textbox)

Spring 2025

# **RATIONALE** (must be included)

The static part of this course is being moved to MSE 103: Statics and Dynamics. Therefore, this course needs a new name, number, number of credits, description and equivalency.

350	UNDERGRAD	UATE STUDIES			Ра	ge 1 of 2
COURSE SU	JBJECT	MSE NUMB	<b>ER</b> 222	TITLE	Kinematics and Dynan Rigid Bodies and Mech	nics of nanism
TYPE OF CH	I <b>ANGES.</b> P	lease type 'X' for the a	appropriate	revision(s):		
Course number		Units		Prere	quisite 🖂	
Title		Description	n 🖂	Equ Sta	ivalent 🗌 cement	
WORDING/ indicate add allows, drag	<b>DESCRIP</b> ed or new the endpo ise review	<b>FION EDITS.</b> Indicate text using <u>underline</u> . bint of the text box to the "Equivalency stat	deleted or c If you need make it bigg tements" sec ivalent state	hanged text to to enter more er, as it will r tion under <u>Ir</u>	using <del>strike through</del> , e text than the box ot automatically <u>formation about</u>	

# **EFFECTIVE TERM AND YEAR FOR CHANGES**

Fall, Spring, Summer and year (please enter in textbox)

Prerequisite: PHYS 140, MATH 152, and (MATH 260 or 310). and MSE 103.



**RATIONALE** (must be included)

Vibrations are being removed as they are not currently being taught and not considered essential for MSE students, as such the pre-req MATH 260 is not required. Particle dynamics is taught in MSE 103 so a required pre-req.

COURSE SU	JBJECT	MSE <b>NUMBER</b>	223	TITLE	Introduction to Fluid Mechanics	d
TYPE OF CH	ANGES.	Please type 'X' for the app	propriate rev	rision(s):		
Course number	$\boxtimes$	Units		Prere	quisite 🖂	
Title		Description		Equ Stat	ivalent ⊠ tement	
<b>VORDING/</b> ndicate add llows, drag xpand. Plea	<b>DESCRIP</b> ed or nev the endp se reviev	<b>PTION EDITS.</b> Indicate devices the text using <u>underline</u> . If point of the text box to many the "Equivalency statem	eleted or char you need to e ike it bigger, nents" section	nged text u enter more as it will n n under <u>In</u>	using <del>strike through</del> , e text than the box lot automatically l <mark>formation about</mark>	
<b>WORDING/</b> ndicate add illows, drag expand. Plea epecific cour MSE <del>223</del> <u>3</u> 2	DESCRIP ed or nev the endp se reviev <u>se compo</u> 2 <u>3</u> - Intro	<b>PTION EDITS.</b> Indicate de w text using <u>underline</u> . If point of the text box to ma w the "Equivalency staten <u>onents</u> if changing equiva- oduction to Fluid Mechan	eleted or char you need to e ake it bigger, a nents" section alent stateme ics (4)	nged text u enter more as it will n n under <u>In</u> ent(s).	using <del>strike through</del> , e text than the box ot automatically iformation about	
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Fall, Spring, Summer and year (please enter in textbox)



**RATIONALE** (must be included)

The original pre-requisites were deemed not required while MSE 103 is a required as it covers topics required for this course.

SFU	SENATE COM UNDERGRAD	MITTEE ON UATE STUDIES		COURSE MO	DDIFICATION FORM Page 1 of 2
COURSE SU	IBJECT	MSE NUMBER	280	<b>TITLE</b> Linear S	ystems
TYPE OF CH	ANGES. P	lease type 'X' for the apj	oropriat	e revision(s):	
Course number		Units		Prerequisite	$\boxtimes$
Title	$\boxtimes$	Description	$\boxtimes$	Equivalent Statement	$\boxtimes$
WORDING/I indicate adde allows, drag expand Plea	<b>DESCRIP1</b> ed or new the endpo	<b>FION EDITS.</b> Indicate detect using <u>underline</u> . If int of the text box to mathe "Equivalency states	eleted or you nee ike it big	changed text using <del>stril</del> d to enter more text that ger, as it will not autom	<del>ke through</del> , h the box atically n about

specific course components if changing equivalent statement(s).

#### MSE 280 - Linear Systems Signals and Systems

The objectives of this course are to cover the modelling and analysis of continuous and discrete signals using linear techniques. Topics covered include: a review of Laplace transforms; methods for the basic modelling of physical systems; discrete and continuous convolution; impulse and step response; transfer functions and filtering; the continuous Fourier transform and its relationship to the Laplace transform; frequency response and Bode plots; sampling; the Z-transform.

Prerequisite: MSE 250 (or ENSC 220) and (MATH 260 or MATH 310). MSE 281 or MATH 260.

Students with credit for ENSC 380 or SEE 341 may not take <u>MSE 280</u> this course for further credit.

#### **EFFECTIVE TERM AND YEAR FOR CHANGES**

Fall, Spring, Summer and year (please enter in textbox)



**RATIONALE** (must be included)

Harmonizing the teaching of control and systems courses to all streamline these courses and remove duplication.

SFU	SENATE COMMIT' UNDERGRADUATI	FEE ON Studies		COURSE MO	DIFICATION FORM Page 1 of 2
COURSE S	UBJECT M	SE NUMBER	<b>R</b> 310	<b>TITLE</b> Sensors a	nd actuators
TYPE OF CH	IANGES. Pleas	se type 'X' for the ap	propriate	revision(s):	
Course number		Units	$\boxtimes$	Prerequisite [	
Title		Description		Equivalent [ Statement	

**WORDING/DESCRIPTION EDITS.** Indicate deleted or changed text using strike through, indicate added or new text using <u>underline</u>. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under <u>Information about</u> specific course components if changing equivalent statement(s).

The unit is changed from 4 to 3 which is enough to cover material mentioned in description

#### **EFFECTIVE TERM AND YEAR FOR CHANGES**

Fall, Spring, Summer and year (please enter in textbox)

# MSE Curriculum reform

Some related material from MSE 310, Sensors and Actuators has been moved to MSE220, Engineering materials to allow more time on the topics covered in MSE 310 and reduce the unit of that

SFU	SENATE CC UNDERGRA	DMMITTEE ON DUATE STUDIES		COURSE MODIFICATION FORI Page 1 of	M 2
COURSE S	UBJECT	MSE NUMBE	ER 312	TITLE Mechatronics Design II	
TYPE OF CH	IANGES.	Please type 'X' for the a	ppropriat	te revision(s):	
Course number		Units	$\boxtimes$	Prerequisite 🖂	
Title	$\boxtimes$	Description	1	Equivalent 🗆 Statement	
WORDING/ indicate add	<b>DESCRII</b> ed or ne	<b>PTION EDITS.</b> Indicate w text using <u>underline</u> .	deleted or If you nee	r changed text using <del>strike through</del> , ed to enter more text than the box	

indicate added or new text using <u>underline</u>. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under <u>Information about</u> <u>specific course components</u> if changing equivalent statement(s).

MSE 312 - Mechatronics Design II (4) <u>Mechatronic Design Studio III (3)</u> Prerequisite: MSE 212 <del>MSE 110 (or ENSC 182)</del>, MSE 320 <del>(or ENSC 382)</del>, MSE

222, MSE 381 (or ENSC 383). MSE 381 may be taken concurrently.

## **EFFECTIVE TERM AND YEAR FOR CHANGES**

Fall, Spring, Summer and year (please enter in textbox)



**RATIONALE** (must be included)

This is the third course in the Mechatronic Design Studio series, so the name and pre-reqs have changed accordingly.

COURSE SI	UBJECT	MSE NUMBER	321	TITLE	Enginee and Hea	ring Therm t Transfer	iodynami
TYPE OF CH	IANGES. PI	ease type 'X' for the apj	propriate r	revision(s):			
Course number		Units		Prere	quisite	$\boxtimes$	
Title		Description		Equ Sta	ivalent	$\boxtimes$	
WORDING/ indicate add	<b>DESCRIPT</b> ed or new	<b>'ION EDITS.</b> Indicate de text using <u>underline</u> . If	eleted or cl you need t	hanged text	using <del>stril</del> e text that	<del>ke through</del> , n the box atically	
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**EFFECTIVE TERM AND YEAR FOR CHANGES** Fall, Spring, Summer and year (please enter in textbox)



**RATIONALE** (must be included)

The pre-req course, MSE 223 is being moved to the third year, and becoming MSE 323. Therefore, so that the numbers are sequential, this course number is changing to MSE 324.

SFU	SENATE COMMIT UNDERGRADUAT	TEE ON E STUDIES		COURSE MODIFICATION FORM Page 1 of 2
COURSE S	UBJECT M	SE NUMBEI	<b>R</b> 320	TITLE Machine Design
TYPE OF CH	HANGES. Plea	se type 'X' for the ap	propriate	revision(s):
Course number		Units		Prerequisite 🛛
Title		Description		Equivalent 🗆 Statement
WORDING/ indicate add allows, drag expand. Plea <u>specific cou</u> Prerequis <u>SEE 222)</u> ,	<b>DESCRIPTIO</b> led or new tex the endpoint ase review the rse componen ite: <del>MSE 100 c</del> MSE 221 <del>or E</del>	N EDITS. Indicate d at using <u>underline</u> . If of the text box to m e "Equivalency state <u>ts</u> if changing equiv or ENSC 104, <u>MSE 2</u> <del>NSC 281</del> . MSE 100	eleted or you need ake it big ments" se valent stat <u>12</u> , (MSE 2 212 may	changed text using <del>strike through</del> , to enter more text than the box ger, as it will not automatically ction under <u>Information about</u> mement(s). 220 <del>or ENSC 231, <u>or</u> be taken concurrently.</del>

# **EFFECTIVE TERM AND YEAR FOR CHANGES**

Fall, Spring, Summer and year (please enter in textbox)

Fall, 2026



**RATIONALE** (must be included)

MSE 100 is being removed and MSE 212 covers the required material.

SFU	SENATE COMMITTE UNDERGRADUATE S	E ON TUDIES		COURSE MODIFICATION FOR Page 1 of	<mark>М</mark> <sup>2</sup> 2
COURSE SU	U <b>BJECT</b> MSE	NUMBER	381	TITLE Feedback Control Systems	
TYPE OF CH	IANGES. Please	type 'X' for the ap	propriate rev	sion(s):	
Course number		Units		Prerequisite 🛛	
Title		Description		Equivalent 🗌 Statement	

**WORDING/DESCRIPTION EDITS.** Indicate deleted or changed text using strike through, indicate added or new text using <u>underline</u>. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under <u>Information about</u> specific course components if changing equivalent statement(s).

Prerequisite: MSE 280 (or ENSC 380). ENSC 380 or MSE 280 or SEE 341.

#### **EFFECTIVE TERM AND YEAR FOR CHANGES**

Fall, Spring, Summer and year (please enter in textbox)



**RATIONALE** (must be included)

Changes to the original pre-req courses due to harmonization of the control and systems courses.

SFU	SENATE COMMIT UNDERGRADUAT	TEE ON E STUDIES		COURSE MODIFICATION FORM Page 1 of 2
COURSE SU	U <b>BJECT</b> M	SE <b>NUMBEI</b>	<b>R</b> 352	TITLE Digital Logic and Microcontrollers
TYPE OF CH	IANGES. Plea	se type 'X' for the ap	propriate i	revision(s):
Course number		Units	$\boxtimes$	Prerequisite 🖂
Title	$\boxtimes$	Description	$\boxtimes$	Equivalent 🗌 Statement
WORDING/ indicate add allows, drag expand. Plea specific cour	DESCRIPTIC ed or new te the endpoint ase review th rse component	<b>PN EDITS.</b> Indicate d at using <u>underline</u> . If of the text box to m e "Equivalency states <u>its</u> if changing equiv	eleted or c you need t ake it bigge ments" sec valent state	nanged text using <del>strike through</del> , o enter more text than the box er, as it will not automatically cion under <u>Information about</u> ment(s).
Introducti	on to digital	systems and number	represent	ation. Combinational systems
and seque sequential	<del>ntial logic. Co</del> l <u>logic circ</u> uit:	<del>ounter design and re</del> <u>s</u> <del>design</del> . <u>Count</u> er de	<del>gisters.</del> Syr <u>sign and</u> re	chronous <u>and asynchronous</u> gisters. Introduction to
- Mmicropr	ocessor/mic	<u>cocontroller</u> applicat	ions, mem	pry and I/O systems.
Microcont	rollers: teatu	res, architecture and	l programr	Addressing modes, assembling

assembly language and microcontroller programming. Addressing modes, assembling and linking programs. Timer/counter programming. ADC, DAC, and sensor interfacing.

Prerequisite: CMPT 130, MSE 252 and either (MSE 251 or ENSC 226 or SEE 231).

# **EFFECTIVE TERM AND YEAR FOR CHANGES**

Fall, Spring, Summer and year (please enter in textbox)



**RATIONALE** (must be included)

Introductory topics moved to MSE 252, therefore credits reduced to 3 and these topics removed from the description. Pre-req includes MSE 252.

TYPE OF CH	ANGES. Pleas	se type 'X' for the app	propriate re	vision(s):
Course number		Units		Prerequisite 🛛
Title		Description		Equivalent 🗆 Statement
<b>VORDING/</b> ndicate add llows, drag xpand. Plea <u>pecific cour</u>	<b>DESCRIPTIO</b> ed or new tex the endpoint se review the <u>se componen</u>	<b>N EDITS.</b> Indicate de t using <u>underline</u> . If of the text box to ma "Equivalency stater <u>ts</u> if changing equiv	eleted or cha you need to ake it bigger nents" sectionalent statem	anged text using <del>strike through</del> , enter more text than the box , as it will not automatically on under <u>Information about</u> nent(s).
VORDING/ ndicate add llows, drag expand. Plea pecific cour Prerequis and MAT	DESCRIPTIO ed or new tex the endpoint se review the se componen site: PHYS 1 H 232. and	N EDITS. Indicate de t using <u>underline</u> . If of the text box to ma "Equivalency stater ts if changing equiv .41 or (PHYS 121 <del>(MATH 260 or N</del>	eleted or cha you need to ake it bigger nents" section alent statem and 131), <del>1ATH 310)</del>	anged text using <del>strike through</del> , enter more text than the box as it will not automatically on under <u>Information about</u> nent(s). , <u>MSE 281 (or MATH 260)</u> . (MATH 260 or MATH
ORDING/I dicate add lows, drag pand. Plea pecific cour Prerequis and MAT <del>310)</del> MSE	DESCRIPTIO ed or new tex the endpoint se review the se componen ite: PHYS 1 H 232 <u>. and</u> 281 (or M	N EDITS. Indicate de t using <u>underline</u> . If of the text box to ma "Equivalency stater ts if changing equiv .41 or (PHYS 121 <del>(MATH 260 or N</del> ATH 260) may be	eleted or cha you need to ake it bigger nents" sectio alent statem and 131), AATH 310) e taken co	anged text using <del>strike through</del> , enter more text than the box , as it will not automatically on under <u>Information about</u> nent(s). , <u>MSE 281 (or MATH 260)</u> ). (MATH 260 or MATH oncurrently.

# EFFECTIVE TERM AND YEAR FOR CHANGES

Fall, Spring, Summer and year (please enter in textbox)

FALL 2025



**RATIONALE** (must be included)

Due to changes in the program, MSE 280 content has changed and is now a required course while MATH 260 is no longer a program requirement.

SFU course su	SENATE COMM UNDERGRADUA JBJECT	ITTEE ON ITE STUDIES BUS NUMBER	479	COURSE M	ODIFICATION FORM Page 1 of 1 y Analysis Practicum
TYPE OF CH	ANGES. Ple	ease type 'X' for the apj	propria	te revision(s):	
Course number		Units		Prerequisite	$\boxtimes$
Title		Description	$\boxtimes$	Equivalent Statement	

**WORDING/DESCRIPTION EDITS.** Indicate deleted or changed text using strike through, indicate added or new text using <u>underline</u>. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under <u>Information about</u> specific course components if changing equivalent statement(s).

A project study that enables students to work on contemporary business problems, requiring them to apply their foundation knowledge in business and advanced analytical skills. Feasible projects will be identified by the course instructor<del>, in collaboration with the career management office at Beedie</del>. Prerequisite: BUS 360W with a minimum grade of C-; <del>90</del> <u>75</u> units. <del>Corequisite: BUS 478.</del>

## **EFFECTIVE TERM AND YEAR FOR CHANGES**

Fall, Spring, Summer and year (please enter in textbox)

Fall 2024

#### **RATIONALE** (must be included)

Reduction of units and the removal of the corequisite reduces some barriers to accessing BUS 479.

SCUS 23-104b



2. Once you have the program impact list, please review how deleting this course affects each program's requirements.

3. If more substantial changes are required to programs as a result of this deletion, please also submit a program modification form.

4. If no further changes other than deletion is required in program requirements, please list those programs in the box below:

Completed October 25, 2023

Program Impact list for BUS 459 - Services Marketing:

This course is referenced in the following programs: Business (Honours) Business (Major)

5. Lastly, please conduct a course impact analysis, which reviews the effect of a course number change and/or course deletion on course prerequisites. For instructions on how to do a course impact analysis, please visit <u>our page</u> and click on "deleting a course" and review Step 2. Course Impact Analysis.

SFU	SENATE COMM UNDERGRADUA	ITTEE ON TE STUDIES		COURSE MODIFICATION FORM Page 1 of 2	<mark>Л</mark> 2
COURSE SU	J <b>BJECT</b>	PUB NUMBER	480	TITLE         Special Topics in Publishing	
TYPE OF CH	ANGES. Ple	ase type 'X' for the app	oropria	te revision(s):	
Course number		Units		Prerequisite 🗆	
Title		Description	$\boxtimes$	Equivalent 🗆 Statement	

**WORDING/DESCRIPTION EDITS.** Indicate deleted or changed text using strike through, indicate added or new text using <u>underline</u>. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under <u>Information about</u> specific course components if changing equivalent statement(s).

Intensive analysis of a particular topic, practice, or technique in publishing. May repeat <u>This course can be repeated</u> for credit <u>up to</u> a maximum of two times, <u>if</u> topic studied is different. Prerequisite: 75 units.

## **EFFECTIVE TERM AND YEAR FOR CHANGES**

Fall, Spring, Summer and year (please enter in textbox)

Fall 2024

SCUS 23-104c



**RATIONALE** (must be included)

Additional language to clarify that students cannot take the same PUB 480 topic more than once.

SFU	SENATE CO UNDERGRA	DMMITTEE ON Aduate studies		COURSE M	ODIFICATION FORM Page 1 of 2
COURSE S	UBJECT	EASC NUMBER	₹ 204	4 <b>TITLE</b> Structur	ral Geology I
TYPE OF C	HANGES.	Please type 'X' for the ap	propria	ate revision(s):	
Course number		Units		Prerequisite	$\boxtimes$
Title		Description	$\boxtimes$	Equivalent Statement	
<b>WORDING</b> , indicate add	<b>/DESCRII</b> ded or ne <sup>.</sup>	P <b>TION EDITS.</b> Indicate d w text using <u>underline</u> . If	eleted you ne	or changed text using <del>stri</del> eed to enter more text tha	<del>ke through</del> , n the box

allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under <u>Information about</u> <u>specific course components</u> if changing equivalent statement(s).

Description, classification and interpretation of  $\underline{eE}$  arth structures: folds, faults, joints, cleavage and lineations. Elementary rock mechanics.

Prerequisite: EASC 210, EASC 101, PHYS 101 or 120 or 125 or 140. All with a grade of C-or better.

## **EFFECTIVE TERM AND YEAR FOR CHANGES**

Fall, Spring, Summer and year (please enter in textbox)

Fall 2024

SCUS 23-104d

Page 2 of 2

EASC 204 content presupposes that students do not have a grounding in structural geology, and so all introductory concepts are presented in the course. Completion of EASC 101 (the prerequisite for EASC 210) is sufficient for students to successfully complete EASC 204. This change also increases flexibility for students within and outside the department.

SFU	SENATE CON UNDERGRAE	IMITTEE ON DUATE STUDIES		COURSE MODIFICATION FORM Page 1 of 2
COURSE S	UBJECT	MBB NUMBER	445	TITLE         Advanced Microbial Pathogenesis
TYPE OF CI	HANGES. F	Please type 'X' for the app	oropriate	revision(s):
Course number		Units		Prerequisite 🗆
Title	$\boxtimes$	Description		Equivalent 🗆 Statement
WORDING, indicate add allows, drag expand. Ple <u>specific cou</u>	<b>DESCRIP</b> ded or new the endpo ase review <u>rse compo</u>	<b>TION EDITS.</b> Indicate de text using <u>underline</u> . If your of the text box to many the "Equivalency staten onents if changing equiva	leted or you need ke it bigg nents" se alent stat	changed text using <del>strike through</del> , to enter more text than the box ger, as it will not automatically ction under <u>Information about</u> rement(s).

Infectious Disease Mechanisms

# **EFFECTIVE TERM AND YEAR FOR CHANGES**

Fall, Spring, Summer and year (please enter in textbox)



Page 2 of 2  $\,$ 

The course name change more accurately reflects the course content and is expected to appeal to a greater number of students.

CELL	SENATE CON	AMITTEE ON			СО	URSE MO	ODIFICATIO	N FORM
SFU	UNDERGRAI	UATE STUDIES					F	Page 1 of 2
COURSE S	UBJECT	STAT N	IUMBER	260	TITLE	Introduo Science	ctory R for D	ata
TYPE OF CH	HANGES. F	Please type 'X' fo	or the appr	opriate revi	sion(s):			
Course number		Units		$\boxtimes$	Coreç	luisite	$\boxtimes$	
Title		Descr	ription		Equ Stat	ivalent cement		

**WORDING/DESCRIPTION EDITS.** Indicate deleted or changed text using strike through, indicate added or new text using <u>underline</u>. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under <u>Information about</u> specific course components if changing equivalent statement(s).

#### STAT 260 - Introductory R for Data Science (2) (3)

An introduction to the R programming language for data science. Exploring data: visualization, transformation and summaries. Data wrangling: reading, tidying, and data types. No prior computer programming experience required. Prerequisite: One of STAT 201, STAT 203, STAT 205, STAT 270, BUS 232, ECON 233, or POL 201, with a grade of at least C- or permission of the instructor. Corequisite: STAT 261. Students who have taken STAT 341 or STAT 360 first may not then take this course for further credit.

## **EFFECTIVE TERM AND YEAR FOR CHANGES**

Fall, Spring, Summer and year (please enter in textbox)



Currently we have the corequisite courses STAT 260-2 (lecture component) and STAT 261-1 (lab component). This is functionally one course but the course codes were separated into corequisite courses to allow for other departments to create their own lab course to pair with STAT 260-2. Unfortunately that never came to fruition, and because this is causing a number of administrative issues, the department would like to collapse these course codes together into one course: STAT 260-3. Everything about the course will remain the same (i.e. number of weekly lecture/lab hours), just with one course code instead of two.

CEL I	SENATE COL	MMITTEE ON		COURSE N	IODIFICATION FORM
SFU	UNDERGRAI	DUATE STUDIES			Page 1 of 2
COURSE S	UBJECT	STAT NUMBER	<b>R</b> 310	<b>TITLE</b> Introduction for the	action to Data Science Social Sciences
TYPE OF CI	HANGES. I	Please type 'X' for the ap	propriate	revision(s):	
Course number		Units	$\boxtimes$	Corequisite	
Title		Description		Equivalent Statement	

**WORDING/DESCRIPTION EDITS.** Indicate deleted or changed text using strike through, indicate added or new text using <u>underline</u>. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under <u>Information about</u> specific course components if changing equivalent statement(s).

#### STAT 310 - Introduction to Data Science for the Social Sciences (2) (4)

An introduction to modern tools and methods for data acquisition, management, visualization, and machine learning, capable of scaling to Big Data. No prior computer programming experience required. Examples will draw from the social sciences. This course may not be used to satisfy the upper division requirements of the statistics honours, major, or minor programs. Prerequisite: 60 units in subjects outside of the Faculties of Science and Applied Sciences and one of STAT 201, STAT 203, STAT 205, STAT 270, BUS 232, ECON 233, or POL 201, with a minimum grade of C-. Corequisite: STAT 311. Students who have taken STAT 240, STAT 440, or any 200-level or higher CMPT course first may not then take this course for further credit. Quantitative.

#### **EFFECTIVE TERM AND YEAR FOR CHANGES**

Fall, Spring, Summer and year (please enter in textbox)



Currently we have the corequisite courses STAT 310-2 (lecture component) and STAT 311-2 (lab component). This is functionally one course but the course codes were separated into corequisite courses to allow for other departments to create their own lab course to pair with STAT 310-2. Unfortunately that never came to fruition, and because this is causing a number of administrative issues, the department would like to collapse these course codes together into one course: STAT 310-4. Everything about the course will remain the same (i.e. number of weekly lecture/lab hours), just with one course code instead of two.

SFU	SENATE COMMIT UNDERGRADUAT	TEE ON E STUDIES		COURSE M	ODIFICATION FORM Page 1 of 2
COURSE S	UBJECT ST	TAT NUMBE	<b>R</b> 360	<b>TITLE</b> Advanc	ed R for Data Science
TYPE OF CH	IANGES. Plea	se type 'X' for the ap	opropriat	e revision(s):	
Course number		Units	$\boxtimes$	Corequisite	$\boxtimes$
Title		Description		Equivalent Statement	

**WORDING/DESCRIPTION EDITS.** Indicate deleted or changed text using strike through, indicate added or new text using <u>underline</u>. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under <u>Information about</u> specific course components if changing equivalent statement(s).

#### STAT 360 - Advanced R for Data Science (2) (3)

Advanced R programming methods for data science. Tools for reproducible research. Version control. Data structures, subsetting, functions, environments, and debugging. Functional programming. Code performance: profiling, memory, integrating R and C++. Prerequisite: One of STAT 260 or STAT 341 and one of STAT 302, STAT 305, STAT 350, or ECON 333, all with a minimum grade of C-. CMPT 125 or CMPT 129 is also recommended. Corequisite: STAT 361.

#### **EFFECTIVE TERM AND YEAR FOR CHANGES**

Fall, Spring, Summer and year (please enter in textbox)



Page 2 of 2

Currently we have the corequisite courses STAT 360-2 (lecture component) and STAT 361-1 (lab component). This is functionally one course but the course codes were separated into corequisite courses to allow for other departments to create their own lab course to pair with STAT 360-2. Unfortunately that never came to fruition, and because this is causing a number of administrative issues, the department would like to collapse these course codes together into one course: STAT 360-3. Everything about the course will remain the same (i.e. number of weekly lecture/lab hours), just with one course code instead of two.



STAT 261-1 is the lab component (and current corequisite) of the Introduction to R course (STAT 260-2). We would like to collapse this lab component into STAT 260-3. This will render the course code STAT 261 unnecessary.

EFFECTIVE TERM AND YEAR FOR CHANGES

Fall, Spring, Summer and year (enter in textbox)

#### PLEASE DO THE FOLLOWING:

1. Attach a program impact list along with your course deletion form. Contact the Senate and Academic Services Office (sfucal@sfu.ca) for a program impact list.

2. Once you have the program impact list, please review how deleting this course affects each program's requirements.

Fall 2024

3. If more substantial changes are required to programs as a result of this deletion, please also submit a program modification form.

4. If no further changes other than deletion is required in program requirements, please list those programs in the box below:

Program impact list for STAT 261:

Actuarial Science Honours Actuarial Science Major Data Science Honours Data Science Major Statistics Honours Statistics Major Statistics Minor [The Department of Statistics and Actuarial Science is proposing changes alongside this request, to remove STAT 261 as a requirement for the above programs]

Business and Economics Joint Honours Business and Economics Joint Major Economics Honours Economics Major

5. Lastly, please conduct a course impact analysis, which reviews the effect of a course number change and/or course deletion on course prerequisites. For instructions on how to do a course impact analysis, please visit <u>our</u> page and click on "deleting a course" and review Step 2. Course Impact Analysis.



STAT 311-2 is the lab component (and current corequisite) of the Data Science Laboratory for the Social Sciences (STAT 310-2). We would like to collapse this lab component into STAT 310-4. This will render the course code STAT 311 unnecessary.

EFFECTIVE TERM AND YEAR FOR CHANGES

Fall, Spring, Summer and year (enter in textbox)

#### PLEASE DO THE FOLLOWING:

1. Attach a program impact list along with your course deletion form. Contact the Senate and Academic Services Office (sfucal@sfu.ca) for a program impact list.

2. Once you have the program impact list, please review how deleting this course affects each program's requirements.

Fall 2024

3. If more substantial changes are required to programs as a result of this deletion, please also submit a program modification form.

4. If no further changes other than deletion is required in program requirements, please list those programs in the box below:

Program impact list for STAT 311:

Business and Economics Joint Honours Business and Economics Joint Major Economics Honours Economics Major Political Science and Economics Joint Major Social Data Analytics Minor

[I have been in contact with Anthea Pasin in Economics, who is looking after getting STAT 311 removed from the above programs. This will also be effective for Fall 2024]

5. Lastly, please conduct a course impact analysis, which reviews the effect of a course number change and/or course deletion on course prerequisites. For instructions on how to do a course impact analysis, please visit <u>our</u> page and click on "deleting a course" and review Step 2. Course Impact Analysis.



STAT 361-1 is the lab component (and current corequisite) of the Advanced R course (STAT 360-2). We would like to collapse this lab component into STAT 360-3. This will render the course code STAT 361 unnecessary.

EFFECTIVE TERM AND YEAR FOR CHANGES

Fall, Spring, Summer and year (enter in textbox)

#### PLEASE DO THE FOLLOWING:

1. Attach a program impact list along with your course deletion form. Contact the Senate and Academic Services Office (sfucal@sfu.ca) for a program impact list.

2. Once you have the program impact list, please review how deleting this course affects each program's requirements.

Fall 2024

3. If more substantial changes are required to programs as a result of this deletion, please also submit a program modification form.

4. If no further changes other than deletion is required in program requirements, please list those programs in the box below:

Program impact list for STAT 361:

Actuarial Science Honours Actuarial Science Major Statistics Honours Statistics Major Statistics Minor Data Science Honours - Added to program in S.23-51 (p. 141 - 156), but pending Ministry review. Data Science Major - Added to program in S.23-51 (p. 122 - 129), but pending Ministry review. [The Department of Statistics and Actuarial Science is proposing changes alongside this request, to remove STAT 361 as a requirement for the above programs]

Social Data Analytics Minor

[I have been in contact with Anthea Pasin in Economics, who is looking after getting STAT 361 removed from the Social Data Analytics minor. This will also be effective for Fall 2024]

5. Lastly, please conduct a course impact analysis, which reviews the effect of a course number change and/or course deletion on course prerequisites. For instructions on how to do a course impact analysis, please visit <u>our</u> page and click on "deleting a course" and review Step 2. Course Impact Analysis.

	BJECT	STAT	NUMBER	350	TITLE	Linear Mo Statistics	odels in Applied
YPE OF CH	IANGES.	Please type	'X' for the ap	propriate	revision(s):		
Course 1umber		U	nits		Prei	requisite	$\boxtimes$
Title		D	escription		Eq St	uivalent atement	
<b>VORDING/</b> ndicate add llows, drag expand. Plea <u>pecific cour</u> <u>STAT 350</u> -	DESCRI led or ne the end ase revie rse comp Linear M	PTION EDIT w text using point of the t w the "Equiv conents if ch Models in App	<b>S.</b> Indicate de <u>underline</u> . If ext box to ma valency stater anging equiv	eleted or c you need ake it bigg nents" sec alent state	thanged text to enter mo er, as it will tion under <u>i</u> ement(s).	t using <del>stril</del> re text that not autom Informatio	<del>ke through</del> , n the box atically <u>n about</u>
<b>ORDING/</b> dicate add lows, drag cpand. Plea <u>becific cour</u> <b>STAT 350</b> - Theory and confidence squares and MATH 251 Quantitativ	DESCRI led or ne the end ase revie rse comp Linear M d applicat intervals d general 1, and on re.	PTION EDIT w text using point of the t w the "Equiv conents if ch Models in App tion of linear s. Model select ized linear m e of MATH 2	S. Indicate de <u>underline</u> . If ext box to ma ralency stater anging equiv died Statistics regression. No ction. Model c odels. Prerequ 32 or MATH	eleted or c you need ake it bigg nents" sec alent state (3) ormal distr liagnostics usite: <u>STA</u> 240, all w	changed text to enter mo er, as it will ction under ement(s). ibution theor ibution theor introductio <u>AT 260 and o</u> ith a minimu	re text that not autom Informatio	ke through, n the box atically <u>n about</u> esis tests and ted least F 285, f C

STAT 260 is an introduction to R course. R is used significantly in STAT 350, so STAT 260 should be a prerequisite for it.

	JBJECT	STAT	NUMBER	403	TITLE	Intermediate Sampling and Experimental Design
TYPE OF C	HANGES.	Please type '	'X' for the app	propriate	revision(s):	
Course number		U	nits		Prei	requisite 🖂
Title		D	escription		Eq St	uivalent 🗌 catement
STAT 403	- Interme	diate Samplir	ng and Experi	mental D	ement(s).	

STAT 260 is an introduction to R course. R is used significantly in STAT 403, so STAT 260 should be a prerequisite for it.

UNDERGRADUATE	T NUMBER	445 l	<b>TITLE</b> Applied Multivaria	Page 1 o ate Analysi
H <b>ANGES.</b> Pleas	e type 'X' for the appr	opriate revis	ion(s):	
	Units		Prerequisite 🛛	
	Description [		Equivalent 🗆 Statement	
- Applied Multi on to principal of te techniques. F or ECON 333	variate Analysis (3) components, cluster ana Prerequisite: <u>STAT 260</u> or equivalent, with a m	llysis, and oth <u>and one of</u> S inimum grade	er commonly used TAT 285 or STAT 302 or e of C Quantitative.	
	UNDERGRADUATE JBJECT STA HANGES. Pleas /DESCRIPTION ded or new tex g the endpoint ase review the urse component - Applied Multi on to principal of te techniques. F	UNDERGRADUATE STUDIES	UNDERGRADUATE STUDIES         JBJECT       STAT       NUMBER       445       1         HANGES. Please type 'X' for the appropriate revis         Units          Description          Description          g the endpoint of the text box to make it bigger, as ase review the "Equivalency statements" section trse components if changing equivalent statements         - Applied Multivariate Analysis (3)         On to principal components, cluster analysis, and oth te techniques. Prerequisite: STAT 260 and one of S'	UNDERGRADUATE STUDIES         JBJECT       STAT       NUMBER       445       TITLE       Applied Multivariat         HANGES. Please type 'X' for the appropriate revision(s):            □       Units       □       Prerequisite          □       Description       □       Equivalent       □         Statement        Statement          //DESCRIPTION EDITS. Indicate deleted or changed text using strike through ded or new text using underline. If you need to enter more text than the box g the endpoint of the text box to make it bigger, as it will not automatically ase review the "Equivalency statements" section under Information about trse components if changing equivalent statement(s).         - Applied Multivariate Analysis (3)       Description       STAT 260 and one of STAT 285 or STAT 302 or

Fall 2024

**RATIONALE** (must be included)

STAT 260 is an introduction to R course. R is used significantly in STAT 445, so STAT 260 should be a prerequisite for it.

COURSE SU	BJECT ST	ΓΑΤ <b>NUMBER</b>	452	TITLE Statistical Learning and Prediction	
ГҮРЕ OF CI	HANGES. Ple	ase type 'X' for the ap	propriate	revision(s):	
Course number		Units		Prerequisite 🖂	
Гitle		Description		Equivalent 🗆 Statement	
indicate add allows, drag expand. Plea	led or new to g the endpoir ase review th rse compone	ext using <u>underline</u> . If nt of the text box to ma ne "Equivalency stater <u>ents</u> if changing equiv	you need t ake it bigge nents" sec valent state	to enter more text than the box er, as it will not automatically tion under <u>Information about</u> ment(s).	

Fall 2024

**RATIONALE** (must be included)

STAT 260 is an introduction to R course. R is used significantly in STAT 452, so STAT 260 should be a prerequisite for it.

COURSE SU	IBJECT ST	AT NUMBER	475	<b>TITLE</b> Applied Discrete Data	Analys
TYPE OF CI	HANGES. Plea	ase type 'X' for the ap	propriate i	revision(s):	
Course number		Units		Prerequisite 🖂	
Title		Description		Equivalent 🛛 Statement	
WORDING, indicate add allows, drag expand. Ple specific cou	<b>DESCRIPTIC</b> ded or new te g the endpoint ase review th rse component Applied Disc	<b>DN EDITS.</b> Indicate d xt using <u>underline</u> . If t of the text box to m e "Equivalency state <u>nts</u> if changing equiv	eleted or cl you need t ake it bigge ments" sec valent state	hanged text using <del>strike through</del> , to enter more text than the box er, as it will not automatically tion under <u>Information about</u> ment(s).	

STAT 260 is an introduction to R course. R is used significantly in STAT 475, so STAT 260 should be a prerequisite for it.

	, -	AT NUMBER 485	<b>TITLE</b> Applied Time Series Analysi
ГҮРЕ OF Cł	HANGES. Plea	se type 'X' for the appropri	te revision(s):
Course number		Units 🗌	Prerequisite 🖂
Гitle		Description	Equivalent 🗆 Statement
WORDING/ indicate adc allows, drag expand. Plea <u>specific cour</u> <u>STAT 485</u> - Introducti	<b>DESCRIPTIC</b> ded or new teg the endpoint ase review th <u>rse component</u> - <b>Applied Time</b> ion to linear t	<b>DN EDITS.</b> Indicate deleted at using <u>underline</u> . If you ne t of the text box to make it b e "Equivalency statements" <u>ints</u> if changing equivalent s e Series Analysis (3) ime series analysis includin	or changed text using <del>strike through</del> , ed to enter more text than the box agger, as it will not automatically section under <u>Information about</u> statement(s).
WORDING/ indicate add allows, drag expand. Ples specific cou STAT 485 - Introducti autoregre and confic models. Pr ECON 333 taken for f credit for	<b>DESCRIPTIO</b> ded or new ter the endpoint ase review th rse component <b>Applied Time</b> ton to linear t ssive and ARI dence interva rerequisite: <u>S</u> or equivalen further credit ECON 484 ma	<b>DN EDITS.</b> Indicate deleted at using <u>underline</u> . If you ne t of the text box to make it b e "Equivalency statements" <u>ets</u> if changing equivalent s <b>e Series Analysis (3)</b> ime series analysis includin MA models, estimation, dat ls, conditional and uncondi <u>TAT 260 and one of</u> STAT 2 t, with a minimum grade of <u>by students who have cred</u> ay not take this course for f	er changed text using <del>strike through</del> , ed to enter more text than the box agger, as it will not automatically section under <u>Information about</u> atement(s). g moving average, a analysis, forecasting errors ional models, and seasonal 85 or STAT 302 or STAT 305 or C <u>This course may not be</u> <del>t for ECON 484.</del> <u>Students with</u> <u>rther credit.</u> Quantitative.

STAT 260 is an introduction to R course. R is used significantly in STAT 485, so STAT 260 should be a prerequisite for it.