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## MEMORANDUM

ATTENTION Senate  
FROM Wade Parkhouse, Acting Chair  
Senate Committee on  
Undergraduate Studies  
RE: Course Changes (SCUS 17-13)

DATE April 7, 2017  
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**For information:**

Acting under delegated authority at its meeting of April 6, 2017 SCUS approved the following curriculum revisions effective Spring 2018.

**a. Faculty of Applied Sciences****1. School of Mechatronic Systems Engineering**

- (i) Prerequisite change for MSE 223 and 321

**b. Faculty of Education**

- (i) Prerequisite change for EDUC 343
- (ii) Prerequisite change - Criminal Records Check for EDUC 475

**c. Faculty of Environment**

- (i) Name, description, pre-requisite or equivalent changes to SD 201, REM/SD 281, REM/SD 381, SD 401, REM/SD 481, REM/SD 483, SD 491, SD 494 and SD 499

COURSE SUBJECT  NUMBER  TITLE

**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(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 underline. 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 [Information about specific course components](#) if changing equivalent statement(s).

Physical properties of fluids and fundamental concepts in fluid mechanics. Hydrostatics. Conservation laws for mass, momentum and energy. Flow similarity and dimensional analysis as applied to engineering problems in fluid mechanics. Laminar and turbulent flow. Engineering applications such as flow measurement, flow in pipes and fluid forces on moving bodies. Prerequisite: PHYS 140, MATH ~~152~~, 251 and 310. Students with credit for ENSC 283 may not take MSE 223 for further credit.

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

**RATIONALE** (must be included)

It has been observed by the instructor that any students who take this course do not have sufficient background in advanced calculus. The instructor proposes to add Math 251 and remove Math 152 as a prerequisite for this course.

COURSE SUBJECT  NUMBER  TITLE

**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(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 underline. 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 [Information about specific course components](#) if changing equivalent statement(s).

Energy transfer as work and heat, the First Law of thermodynamics. Properties and states of simple substances. Control-mass and control-volume analyses. Entropy, the Second Law of thermodynamics. Carnot cycle. Energy conversion systems; internal combustion engines, power plants and refrigeration cycles. Heat transfer by conduction, convection, and radiation. Formulation and solution of steady and transient problems. Cooling of microelectronics, thermal solutions. Prerequisite: MATH ~~152~~, 251, PHYS 140, and MSE 223. Students with credit for ENSC 388 or PHYS 344 may not take MSE 321 for further credit.

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

**RATIONALE** (must be included)

The instructor of MSE 321 has noted that students take MSE 321 without completing MSE 223. As such, they do not have sufficient background to perform well in the course. Therefore, it is proposed to add MSE 223 as a prerequisite to this course. Also, as Math 251 is already a prerequisite of this course, MATH 152 is removed from the list of prerequisites of MSE 321.



COURSE SUBJECT  NUMBER  TITLE

TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course number	Credit	Title	Description	Equivalent Statement	X	Prerequisite
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WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using strike through, indicate added or new text using underline. 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 Information about specific course components if changing equivalent statement(s).

The literacy practicum is the vehicle through which students in the Certificate in Literacy Instruction implement and evaluate the model of adult literacy instruction developed in EDUC 342. Implementation may occur in a variety of contexts and institutions with adults; the literacy practicum will be supervised and may involve supervised teaching, curriculum developments, or research field work.  
 Prerequisite: A grade of C+ or higher in EDUC 342 and permission of the instructor.  
 Students must successfully complete a criminal records check.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

RATIONALE (must be included)

To ensure the student is adequately prepared for the practicum with respect to background experience and capacity to fulfill the expectations of the practicum.



Faculty of Education

MEMO

Undergraduate Programs

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ATTENTION: Jo Hinchliffe, Senate Committee  
on Undergraduate Studies

FROM: Ann Chinnery, Director

RE: Calendar Changes

DATE: March 6, 2017

Criminal Records Check changes: (PRE-REQUISITE)

EDUC 475 Students must successfully complete an SFU criminal records check.

Thank you.

AC/sp





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MEMORANDUM

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ATTENTION Wade Parkhouse, AVPA, Chair of SCUS  
FROM Alex Clapp, Chair, FENV UCC  
RE: Faculty of Environment Curriculum Changes

DATE March 20th, 2017

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Please find attached the following submissions from the Faculty of Environment to SCUS. These items were approved by the Faculty of Environment Undergraduate Curriculum Committee on Feb 6th, 2017 and subsequently undergone minor editing to bring them in line with the new SD acronym and program changes.

- Name, description, pre-requisite or equivalent changes to SD 201, REM/SD 281, REM/SD 381, SD 401, REM/SD 481, REM/SD 483, SD 491, SD 494, SD 499

Thanks,  
Alex

# Sustainable Development Courses

## SD 201- Introduction to Development and Sustainability (3)

A critical introduction to various approaches to development and sustainability. Examines the impacts of major drivers of environmental change caused by development processes, and offers selected case studies from around the world illustrating policy and practical challenges to implementing sustainable development measures at various scales. Students with credit for DEVS 201 cannot take SD 201 for further credit.

## REM/SD 281 - Introduction to Sustainable Community Development (3)

First required course for the SCD Certificate. Builds an understanding of strengths and weaknesses of conventional approaches to development; rationale for alternative approaches; varying interpretations of community and of development; and essential components for creating local economic development strategies. Sustainable Community Development is introduced as a framework to meet current social and economic needs while ensuring adequate resources are available for future generations. Prerequisite: 30 units or SCD Certificate program approval or permission of the Director of the Sustainable Development Program ~~director for SCD~~. Not permitted for credit toward the SCD Post Baccalaureate Diploma. Corequisite: students may not complete this course concurrently with upper division SD courses. Students with credit for ~~CED~~ SCD or REM 201 may not complete this course for further credit. Breadth-Social Sciences.

## REM/SD 381- Sustainable Community Development Theory and Practice (4)

A theoretical foundation for understanding sustainable development at the community level; including an integrated approach to environmental, economic, and social aspects of development. Emphasizes economic and policy instruments, and planning tools, for engaging in and implementing SCD. Prerequisite: SCD certificate program approval and ~~CED~~ SCD or REM 201 or SD 281 or SCD diploma program approval or completion of 60 units or permission of the ~~director for SCD~~ Director of the Sustainable Development Program. Students with credit for ~~CED~~ SCD or REM 301 may not complete this course for further credit. Breadth-Social Sciences.

## SD 401 - Issues, Concepts and Cases in Development and Sustainability (4)

An in-depth critical examination of contemporary challenges to effective governance for sustainable development within the context of global north-south relations. Assesses the prospects for sustainable solutions in relation to selected problem-solving thematic areas and case studies at various scales involving student-led dialogues. Prerequisite: 60 units. Students with credit for DEVS 401 or ENV 401 may not complete this course for further credit.

## REM/SD 481 - Social Enterprise for Sustainable Community Development (4)

Third required course for the SCD Certificate. Introduction to the theory and practice of social enterprise within a SCD context, including the appropriate form of social enterprise for a particular purpose. Prerequisite: SD 381 or ~~CED~~, SCD or REM 301, or permission of the

Director for ~~SCD~~ of the Sustainable Development Program. Students with credit for ~~CED~~ SCD or REM 401 may not complete this course for further credit.

### REM/SD 483 - Leadership in Sustainable Community Development (4)

Fourth required course for the SCD Certificate. Concerned with approaches SCD leaders require as agents of change, including: tackling complex community issues in addition to offering innovative tools for engaging others in meaningful collaboration processes. Prerequisite: SD 381 or ~~CED~~, SCD or REM 301, or permission of the Director for ~~SCD~~ of the Sustainable Development Program. Students with credit for ~~CED~~ SCD or REM 403 may not complete this course for further credit.

### SD 491 - Directed Studies in Sustainable Community Development (4)

Designed to permit students to expand their knowledge base and apply their critical thinking in sustainable development ~~SCD~~. Open to all SD students. Certificate and Minor students must apply for special permission to take this course. Enrollment is limited. Prerequisite: ~~REM or SCD 301, REM or SCD 401, and REM or SCD 403, and~~ permission of the Director for ~~SCD~~ of the Sustainable Development Program. Students with credit for DEVS 403 or SCD 412 may not take this course for further credit.

### SD 494 - Project in Sustainable Community Development (4)

Provides students an opportunity to apply ideas and models acquired in the program to a practical problem in sustainable development. Required for SCD PBD students. SCD Certificate students must apply for special permission to take this course. Enrollment is limited. Prerequisite: ~~CED or SCD 301, 401, 403 and~~ permission of the Director for ~~SCD~~ of the Sustainable Development Program. Students with credit for ~~CED or~~ SCD 404 may not take this course for further credit.

### SD 499 - Special Topics in Sustainable Community Development (4)

A specific topic within the field of sustainable ~~community~~ development, not covered by regularly scheduled, required courses in the program. Prerequisite: ~~CED or SCD 301~~ permission of the Director for ~~SCD~~ of the Sustainable Development Program. Students with credit for ~~CED-DEVS 402~~ or SCD 410 with the same topic may not take this course for further credit.