



8888 University Drive,
Burnaby, BC
Canada V5A 1S6

TEL: 778.782.6654
FAX: 778.782.5876

avpacad@sfu.ca
www.sfu.ca/vpacademic

MEMORANDUM

ATTENTION	Senate	DATE	July 9, 2021
FROM	Elizabeth Elle, Vice-Chair Senate Committee on Undergraduate Studies	PAGES	1/1
RE:	Course Changes (SCUS 21-55)		

For information:

Acting under delegated authority at its meeting of July 8, 2021 SCUS approved the following curriculum revisions effective Summer 2022.

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

- (i) Description and prerequisite changes for MSE 300
- (ii) Equivalent statement change for MSE 411
- (iii) Prerequisite change for MSE 498

b. Faculty of Environment**1. School of Environmental Science**

- (i) Unit change for EVSC 201W
- (ii) Prerequisite change for EVSC 305

2. School of Resource and Environmental Management

- (i) Prerequisite change for SD 381 and 481
- (ii) Prerequisite changes for PLAN 300, 302, 400, 406, 408 and 443

c. Faculty of Science**1. Department of Biological Sciences**

- (i) Prerequisite change for BISC 435 (Fall 2022)

2. Department of Biomedical Physiology and Kinesiology

- (i) Title and description change for BPK 303

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

COURSE SUBJECT	MSE	NUMBER	300	TITLE	The Business of Engineering I
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TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course number	☐	Units	☐	Prerequisite	☒
Title	☐	Description	☒	EquivalentStatement	☐

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).

Covers topics in decision theory and engineering economics including: gap analysis, multi-attribute utility theory, discounted cash flow fundamentals, inflation, depreciation, tax, financial analysis, ~~uncertainty~~ uncertainty and optimization. Prerequisite: More than ~~75~~ 65 units. Students with credit for SEE 300, ENSC 201, ENSC 311, ENSC 410 or ENSC 411 may not take MSE 300 for further credit.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Summer 2022

RATIONALE(must be included)

We would like to provide flexibility to MSE students who opt for flexible MSE curriculum.

COURSE SUBJECT	MSE	NUMBER	411	TITLE	Capstone Design Technical Project II
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TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course number	☐	Units	☐	Prerequisite	☐
Title	☐	Description	☐	EquivalentStatement	X

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).

Must not be taken concurrently with MSE 493 or MSE 494. Students with credit for ENSC 442-440 or SEE 411 may not take MSE 411 for further credit.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Summer 2022

RATIONALE(must be included)

There was a typo in the course number.

COURSE SUBJECT	MSE	NUMBER	498	TITLE	Mechatronic Systems Engineering Thesis Proposal
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TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course number	☐	Units	☐	Prerequisite	☒
Title	☐	Description	☐	EquivalentStatement	☐

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).

Prerequisite: At least ~~115~~ 100 units or permission of the academic supervisor.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Summer 2022

RATIONALE(must be included)

We would like to provide more flexibility to MSE students who would like to start the honors program earlier.



COURSE SUBJECT	EVSC	NUMBER	201W	TITLE	Environmental Science in Practice
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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).

Environmental Science in Practice ~~(4)~~ (3)

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Summer 2022

RATIONALE (must be included)

This course has been re-designed to use 3 contact hours: 1 hour of lecture-style content and 2 hours of hands-on tutorial/workshop-style exercises where students work in small teams. The course is driven more by writing skill development and experiential learning than by delivery of content, so this change reflects the associated reduction in “lecture” hours. The change also more accurately reflects the workload in the course, which is consistent with other 3-unit courses in SES.

COURSE SUBJECT

EVSC

NUMBER

305

TITLE

Methods in Environmental
Science**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).

Introduces EVSC students to lab and field methods used in the study of Environmental Science. Prerequisite: EVSC 100 and 50 units ~~of credit in the environmental science program~~. Students with credit for EVSC 205 or EVSC 491W may not take this course for further credit.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Summer 2022

RATIONALE (must be included)

Students do not take 50 units of EVSC courses. The intention was that students take 50 units of courses required for the EVSC major or honours program, however to administer that intention would need a great amount of administration and coding individual courses.

COURSE SUBJECT	SD	NUMBER	381	TITLE	Building Sustainable Communities
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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).

SD 381 - Building Sustainable Communities (4)

Engages students in understanding how to plan and cultivate sustainability at the community and city level, taking into consideration the environmental, economic, and social aspects of development. Explores and analyzes policy instruments, planning tools, and strategies from around the world for engaging people and institutions in building sustainable communities. Prerequisite: One of PLAN 100, PLAN 200, REM 100, or SD 281; and 45 units. Students with credit for SCD 301 or REM 301 or REM 381 may not complete this course for further credit. Breadth-Social Sciences.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Summer 2022

RATIONALE (must be included)

Due to a course number change for PLAN 200 to PLAN 100 approved earlier, the prerequisites for SD 381 need to be updated to include PLAN 200 since it is an equivalent course to PLAN 100 and which is included as a prerequisite already.

COURSE SUBJECT	SD	NUMBER	481	TITLE	Sustainability Governance and Leadership
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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).

SD 481 - Sustainability Governance and Leadership (4)

Engages students in understanding critical concepts and issues of sustainability at different scales and how they related to policy, management, leadership, and governance in a range of context and across different sectors (thinking about how local movements can come to influence national and international governance). Explores and analyzes the history of sustainability action, how change happens, the role of different levels of governance, current sustainability initiatives, and prospects for how to create change in the future.

Prerequisite: One of PLAN 100, PLAN 200, REM 100, or SD 281; and 60 units. Students with credit for SCD 401 or REM 401 or REM 481 may not complete this course for further credit.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Summer 2022

RATIONALE (must be included)

Due to a course number change for PLAN 200 to PLAN 100 approved earlier, the prerequisites for SD 481 need to be updated to include PLAN 200 since it is an equivalent course to PLAN 100 and which is included as a prerequisite already.

COURSE SUBJECT	PLAN	NUMBER	300	TITLE	Methods for Planning Analysis
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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).

PLAN 300 – Methods for Planning Analysis (4)

Explores the qualitative and quantitative research methods used by planners in both urban and regional settings. Students will gain a basic understanding of planning relevant data and approaches to analyzing and communicating planning data between and within different communities. The roles of planners, and other participants/actors, in research related to urban and regional planning processes will be introduced. Processes and techniques associated with conducting ethical planning research will also be covered. Prerequisite: PLAN 100 or PLAN 200.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Summer 2022

RATIONALE (must be included)

Due to a course number change for PLAN 200 to PLAN 100 approved earlier, the prerequisites for PLAN 300 need to be updated to include PLAN 100 since it is an equivalent course to PLAN 200 and which is included as a prerequisite already.

COURSE SUBJECT PLAN **NUMBER** 302 **TITLE** Planning Internship I**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).

PLAN 302 - Planning Internship I (1)

Provides students with practical professional planning experience through an internship with an outside agency or through a planning project supervised by the course instructor. Internships will consist of a minimum of 80 hours of practical work time. Students will be required to prepare a log book documenting the work activities. Log books will be signed by the student intern's supervisor. Students will prepare a final report to submit to the course instructor describing the nature of the work performed and lessons they learned from the work experience. For students registered in the REM planning concentration who are not in the co-op program. Pass/Fail. Prerequisite: PLAN 100 or PLAN 200; one of PLAN 300 or PLAN 319, or REM 319; and permission of the Department. Student must be enrolled in the Bachelor of Environment in Resources and Environmental Management Planning Stream.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Summer 2022

RATIONALE (must be included)

Due to a course number change for PLAN 200 to PLAN 100 approved earlier, the prerequisites for PLAN 302 need to be updated to include PLAN 100 since it is an equivalent course to PLAN 200 and which is included as a prerequisite already.

COURSE SUBJECT	PLAN	NUMBER	400	TITLE	Planning Theory and Policy Analysis
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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).

PLAN 400 - Planning Theory and Policy Analysis (4)

Provides an advanced evaluation of planning theory, public policy and policy analysis, focusing on problems in urban and regional planning and resource and environmental management. Prerequisite: PLAN 100 or PLAN 200; and 60 units.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Summer 2022

RATIONALE (must be included)

Due to a course number change for PLAN 200 to PLAN 100 approved earlier, the prerequisites for PLAN 400 need to be updated to include PLAN 100 since it is an equivalent course to PLAN 200 and which is included as a prerequisite already.

COURSE SUBJECT	PLAN	NUMBER	406	TITLE	Rural Planning and Development
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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).

PLAN 406 - Rural Planning and Development (4)

Examines the processes and practices of planning in the rural setting. Topics may include the historical development of rural planning in Canada, the principles and practices of rural development and their relevance to planning, planning in resource regions, and planning for rural resilience. For each topic the course will identify the challenges and opportunities associated with adding a rural lens to planning practice. Prerequisite: PLAN 100 or PLAN 200; and 60 units.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Summer 2022

RATIONALE (must be included)

Due to a course number change for PLAN 200 to PLAN 100 approved earlier, the prerequisites for PLAN 406 need to be updated to include PLAN 100 since it is an equivalent course to PLAN 200 and which is included as a prerequisite already.

COURSE SUBJECT	PLAN	NUMBER	408	TITLE	Environmental Planning for Sustainable Communities
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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).

PLAN 408 - Environmental Planning for Sustainable Communities (4)

Examines frameworks, policies and planning approaches to position communities for a sustainable future. Sustainable communities connect citizens, private sector and government to collaborate in balancing human well-being with ecosystem health. Environmental planners need to know how to engage community-level stakeholders to prevent deforestation, reduce carbon emissions, and protect biodiversity while also fostering community health, social equity, and quality of life. Prerequisite: PLAN 100 or PLAN 200; and 60 units.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Summer 2022

RATIONALE (must be included)

Due to a course number change for PLAN 200 to PLAN 100 approved earlier, the prerequisites for PLAN 408 need to be updated to include PLAN 100 since it is an equivalent course to PLAN 200 and which is included as a prerequisite already.

COURSE SUBJECT	PLAN	NUMBER	443	TITLE	Public Engagement, Mediation and Conflict Resolution in Planning
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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).

PLAN 443 - Public Engagement, Mediation and Conflict Resolution in Planning (4)

Introduces students to the theory and techniques of public engagement, negotiation and mediation processes in planning. Begins with a review of planning and negotiation theory and this is followed by a review of techniques for the design and operation of public engagement in planning. Case studies and negotiation simulation sessions will be used to illustrate key concepts. We use the theories and approaches taught at the Harvard Negotiation Program including Harvard Negotiation Program simulation exercises for environmental dispute resolution. Students acquire the skills to design, manage, and facilitate public engagement processes in planning, engage in stakeholder negotiation, and resolve public disputes in planning. Prerequisite: PLAN 100 or PLAN 200; and 60 units.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Summer 2022

RATIONALE (must be included)

Due to a course number change for PLAN 200 to PLAN 100 approved earlier, the prerequisites for PLAN 443 need to be updated to include PLAN 100 since it is an equivalent course to PLAN 200 and which is included as a prerequisite already.



COURSE SUBJECT	BISC	NUMBER	435	TITLE	Introduction to Pest Management
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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).

Prerequisite: ~~BISC 204 or GEOG 215 with a grade of C- or better and completion of 75 units.~~ BISC 204 with a grade of C- or better.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Fall 2022

RATIONALE (must be included)

Rationale: The pre-requisite has been changed to bring BISC 435 in line with other BISC upper division courses in applied ecology that require foundational knowledge in ecology.

The change also reflects the need for this foundational background knowledge rather than the need for a specific organismal course (BISC 317 insect Biology) recognizing that taxa other than insects can be pests.

This change also provides greater flexibility and improved access to BISC 435 for Majors in Biological and Environmental Science.

COURSE SUBJECT	BPK	NUMBER	303	TITLE	Kinanthropometry: Assessment of Movement and Function
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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).

BPK 303 - ~~Kinanthropometry~~: Assessment of Movement and Function (3)

~~Kinanthropometry~~ uses Clinical orthopaedic assessment involves measurements of the human body to determine its capability for function and movement. The theoretical background, practical application and ~~clinical~~ assessment for topics including anthropometrics, posture, balance, range of motion, strength, motor and sensory function, muscle length, coordination and balance, and walking and running gait will be investigated.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Summer 2022

RATIONALE (must be included)

Current instructor would like to remove reference to Kinanthropometry, as the term is not clear to students and is not utilized or defined within the course content.