



School of the Arts

Digital Fabrication and Design Program Policies

APPROVAL:

1. Next Policy Review:	<u>2028-01-01</u>
2. Admissions & Standards Committee:	<u>2023-02-28</u>
3. Education Council Committee:	<u>2023-03-14</u>
4. Effective:	<u>2023-08-01</u>
5. Minor Revisions:	<u> </u>
6. Credential(s):	<u>Diploma</u>

PROGRAM OUTCOMES

1. apply efficient computer-aided design workflows.
2. apply 3D scanning methods and processes for reverse engineering, quality control, and metrology.
3. apply subtractive and additive manufacturing techniques and efficient workflows for rapid prototyping.
4. use current and emerging technologies and recognized best practices.
5. apply project planning and evaluation skills.
6. operate shop tools and digital fabrication equipment.
7. explain terms, concepts, and processes of digital fabrication.
8. communicate effectively and efficiently in various formats to a variety of stakeholders, consistent with industry expectations.
9. apply emerging problem-solving skills.
10. demonstrate developing collaborative skills.
11. demonstrate developing critical and creative thinking skills.
12. conduct themselves in a professional and ethical manner in academic and work-related environments.

Students in the Digital Fabrication and Design Program are subject to the overall policies affecting all students at Selkirk College, with the following additions. College policies may be viewed on-line at the College website (www.policies.selkirk.ca).

PART I: ADMISSIONS

A. ADMISSION REQUIREMENTS

In addition to meeting the general admission requirements to Selkirk College, as outlined in Policy 8611: Admission; applicants to the Digital Fabrication and Design program must meet the following requirements to be considered fully-qualified:

1. Academic

- a) Math 11 (Foundations or Pre-Calculus) with a grade of "B" or higher
- b) English 12 with a grade of "C+" or higher.

Note: Recommended but not mandatory: Physics 11 with a grade of "C+" or higher

- B. APPLICATION PROCEDURE

1. Before an applicant's file is considered to be complete, the following must have been received by the Admissions office:
 - a) Completed application form.
 - b) Official transcripts of high school grades (an interim statement of grades is acceptable if applicant is currently a student). Photocopied transcripts are not acceptable unless notarized or submitted directly from the school to Selkirk College.
 - c) Official transcripts of all post-secondary education grades. Photocopied transcripts are not acceptable unless notarized or submitted directly from the school to Selkirk College.
 - d) Applicant information questionnaire.
2. Students wishing to enroll in the Digital Fabrication and Design Program on a part-time basis, may do so providing the same entry requirements as full-time students as stated in Part 1.A have been met. Part-time students are only accepted if space is available after all full-time students are scheduled.

- C. ADVANCE CREDIT (see Policy 8614: Advanced Standing – Transfer Credit, Prior Learning Assessment (PLA) and Course Challenge)

- D. RE-ENTRY INSTRUCTION:

1. Re-admission to the program is only permitted when space is available.
2. Students who must interrupt their program may apply for re-admission within one year of departure or with the permission of the School Chair.

PART II: ASSESSMENT, PROMOTION AND GRADUATION

- A. ASSESSMENT

1. Grading

Grading will be based on the grades specified in the Standard Academic and Career Grading Table. To view the grading tables, see Policy 8612: Grading.

2. Assessment Rewrites

- a) Students who are absent from an examination due to illness, accident or family emergency may apply to the instructor for permission to be assessed at an alternate time.
- b) Supplemental/re-writes must be written within the time period indicated by the instructor.

3. Cheating and Plagiarism

- a) Cheating and plagiarism will not be tolerated. Please refer to College Policy 8618 Cheating and Plagiarism.

B. PROMOTION

1. Admission to a given semester requires completion of all required courses with a minimum cumulative G.P.A. of 2.0 and no more than one (1) failure grade in the previous semester courses. Promotion from the first year to the second year also requires a minimum G.P.A. of 2.0 and no more than one failing grade in first year courses. Any student with more than one (1) failure must have the School Chair's approval to progress to the next semester. Students receiving a final grade of "F" in a prerequisite course will not be allowed to register in a subsequent course requiring that prerequisite
2. To be qualified for admission into a course which stipulates a prerequisite, a minimum grade of "C" must be achieved in the prerequisite course, unless otherwise specified.
3. Normally, two failed attempts in a required course is cause for withdrawal from the program. A third attempt in the same course may be made with the permission of the School Chair.

C. GRADUATION

In order to qualify for the Selkirk College Digital Fabrication and Design Diploma, a student must complete all of the following courses with a minimum Final Grade of "P" in each course and an overall GPA of 2.00 or better.

COURSE OF STUDIES

Digital Fabrication and Design Diploma Program					
Semester 1			Semester 2		
Course Code	Course	Credit	Course Code	Course	Credit
DFAB 101	Introduction to Digital Fabrication and Design	1	DFAB 105	Design for Additive Manufacturing	4
DFAB 103	Design for Digital Fabrication 2D		DFAB 106	Additive Manufacturing I	1.5
DFAB 104	Design for Digital Fabrication 3D	5	DFAB 107	Design for Subtractive Manufacturing	5
DFAB 111	Introduction to Desktop 3D Printing	2	DFAB 108	Subtractive Manufacturing I	3
DFAB 112	Traditional Fabrication Principles	3	DFAB 113	Traditional Fabrication Practices	2
Total Semester Credits		15	Total Semester Credits		15.5
Total Year Credits					30.5

Semester 3			Semester 4		
DFAB 201	3D Scanning and Reverse Engineering	3	DFAB 205	Entrepreneurship	1
DFAB 202	Subtractive Manufacturing II	4	DFAB 206	Molding and Casting for Advanced Manufacturing	3
DFAB 203	Additive Manufacturing II	4	DFAB 207	Advanced CNC Technologies	3
DFAB 204	Computer Aided Design and Rapid Prototyping	4	DFAB 208	Sustainability and Adaptive Design	3
			DFAB 209	Capstone	5
Total Semester Credits		15	Total Semester Credits		15
Total Year Credits					30
Total Program Credits					60.5

Part III COLLEGE POLICIES RELEVANT TO ACADEMIC AND STUDENT AFFAIRS:

Policy 3400: Student Code of Conduct
 Policy 6010: Human Rights, Harassment, & Discrimination
 Policy 6030: Sexual Violence Prevention & Response
 Policy 6550: Protection of Privacy
 Policy 8400: Student Appeals
 Policy 8600: Pre-Admissions Basic Skills Assessment
 Policy 8611: Admission
 Policy 8612: Grading
 Policy 8613: Evaluation of Student Learning
 Policy 8614: Advanced Standing – Course Challenge, PLA, Transfer Credit
 Policy 8615: Standards of Academic Progress
 Policy 8616: Student Withdrawals and Refunds
 Policy 8617: Credentials and Graduation
 Policy 8618: Cheating and Plagiarism
 Policy 8619: Student Probation
 Policy 8620: Interdisciplinary Studies