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MEMORANDUM

ATTENTION	Senate	**DATE**	December 4, 2015
FROM	Gordon Myers, Chair	**PAGES**	1/1
	Senate Committee on		
	Undergraduate Studies		
RE:	Faculty of Communication, Art and Technology (SCUS 15-43)		

For information:

Acting under delegated authority at its meeting of December 3, 2015 SCUS approved the following curriculum revisions effective Fall 2016.

1. <u>School for the Contemporary Arts (SCUS 15-43a)</u>

    (i) Requirement changes to the academic continuance policy ✱
    (ii) Prerequisite change for FPA 232
    (iii) Description change for FPA 324
    (iv) Prerequisite change for FPA 326, 305
    (v) Description and prerequisite change for FPA 308, 309
    (vi) Prerequisite change for FPA 405
    (vii) Description and prerequisite change for FPA 408

2. <u>School of Interactive Arts and Technology (SCUS 15-43b)</u>

    (i) New Course Proposal: IAT 499-6, Graduation Project

✱ Apply to the following programs:
   - Art, Performance & Cinema Studies Major
   - Dance Major
   - Dance with National Ballet School Teachers' Training Major
   - Film Major
   - Music Major
   - Theatre (Performance Stream) Major
   - Theatre (Performance & Design Stream) Major
   - Visual Art Major

        SN / Senate Assistant

SFU

FACULTY OF COMMUNICATION, ART AND TECHNOLOGY
Office of the Dean

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MEMORANDUM ————————————————————————————————

ATTENTION	Gordon Myers, Chair	**DATE**	November 19, 2015
	Senate Committee on Undergraduate Studies		
FROM	Martin Gotfrit, Chair	**PAGES**	20, including cover memo
	Undergraduate Curriculum Committee		
	Faculty of Communication, Art, and		
	Technology		
RE:	UCC, November 2015 meeting		

On November 19, 2015, the Faculty of Communication, Art and Technology Undergraduate Curriculum Committee approved the following curricular revision:

SCA (R. Kitsos)
- Academic Continuance Policy GPA change
-
- Prerequisite Change FPA 232
- Description Change FPA 324
- Prerequisite Change FPA 326
- Prerequisite Change FPA 305
- Description and Prerequisite Change FPA 308
- Description and Prerequisite Change FPA 309
- Prerequisite Change FPA 405
- Description and Prerequisite Change FPA 408

SIAT (C. Gibson)
- IAT 499 Graduation Project – New Course

Please place these items on the next meeting of SCUS.

Martin Gotfrit

School for the Contemporary Arts
Academic Continuance Policy

The School for the Contemporary Arts would like to lower the required FPA GPA for the schools academic continuance policy from 3.0 to 2.67. This change will allow us to retain a wider range of students in all areas of the school. We are also adding more detail to the process when students fall below the required GPA for greater efficiency. This addition includes input from the area coordinator and director of the school.

Program Requirements

FROM	TO
Program Requirements	**Program Requirements**
Policy:	**Policy:**
All students who successfully complete the acceptance process within the School for the Contemporary Arts are offered the status of "Major" in a specific area of study entering the first year. In order to remain a major, all students are required to maintain a cumulative GPA in FPA courses of 3.0. Students that fall below the 3.0 will have a limited time to bring the average up before losing their status as a major.	All students who successfully complete the acceptance process within the School for the Contemporary Arts are offered the status of "Major" in a specific area of study entering the first year. In order to remain a major, all students are required to maintain a cumulative GPA in FPA courses of 2.67. Students that fall below the 2.67 will have a limited time (see process below) to bring the average up before losing their status as a major.
Process:	**Process:**
All SCA student GPA levels will be evaluated at the end of each academic year, normally at the end of the Spring semester. A student who falls below the required cumulative GPA in FPA courses of 3.0 will be notified of their probation status as a major with a limited time to adjust their FPA GPA. Students will need to meet with the Area Coordinator and Advisor and plan their academic career for either re-establishing the Major or pursuing an FCAT BA with a double minor program. If the student does not bring the cumulative GPA in FPA courses to 3.0 in the allotted time, he/she will be dropped from the major. If the student is in first or second year of study within the major and falls below the required cumulative GPA in FPA courses of 3.0, the student will have two semesters to bring up their average to	All SCA student GPA levels will be evaluated at the end of each academic year, normally at the end of the Spring semester. A student who falls below the required cumulative GPA in FPA courses of 2.67 will be notified of their probation status as a major with a limited time to adjust their FPA GPA. Students will need to meet with the Area Coordinator and Advisor and plan their academic career for either re-establishing the Major or pursuing an FCAT BA with a double minor program. If the student does not bring the cumulative GPA in FPA courses to 2.67 in the allotted time, he/she will be dropped from the major. If the student is in first or second year of study within the major and falls below the required cumulative GPA in FPA courses of 2.67, the student

3.0. If the student is in third year of their major, they will have one semester to bring their average to 3.0. Students who lose their status as a major in the SCA will have the option of pursuing the extended minor as part of the double minor BA option in FCAT, or via other options in the university.	will have two semesters to bring up their average to 2.67. If the student is in third year of their major, they will have one semester to bring their average to 2.67. Students who lose their status as a major in the SCA will have the option of pursuing the extended minor as part of the double minor BA option in FCAT, or via other options in the university. In extraordinary circumstances, the area coordinator and director of the school will review academic continuance policy cases.

Effective Term: ~~Summer~~ 2016
FALL

COURSE SUBJECT	FPA	NUMBER	FPA 232	TITLE	Film Sound

INSTRUCTIONS (OVERALL):

1. Using Microsoft Word draft changes using the following guideline. Paste in box below.
2. Rationale must be included. If more space is needed than provided below, please use the provided text box on page 2 of this document.
3. Indicate term = Fall, Spring, Summer

TYPE OF CHANGES RECOMMENDED

Please type 'X' for the appropriate revision(s):

	Course number		Credit		Title		Description	X	Prerequisite		Deletion

WORDING/DESCRIPTION EDITS

1. Indicate deleted or changed text using ~~strikethrough~~.
2. Indicate added or new text using <u>underline</u>.
3. Equivalent courses: preclusion statement should read:
   a. Students with credit for x cannot take y for further credit.

Through lectures, demonstrations and studio work, students will be introduced to several aspects of location sound recording and audio post production for film and video. Topics will include synchronization systems and techniques, editing, music scoring, mixing and both analog and digital sound technology. Students who have completed FPA 330 may not take FPA 232 for further credit. Prerequisite: FPA 131 ~~and 184.~~

RATIONALE

If more space is needed, please use the provided text box on page 2 of this document

The film area of the School for the Contemporary Arts would like to remove FPA 184 (now 149) from the prerequisite for FPA 232. Some students are not able to take 149 until second year and FPA 131 is an adequate preparation for FPA 232.

EFFECTIVE TERM AND YEAR, FOR CHANGES

~~Summer~~ 2016   FALL

January 2015

SFU

COURSE SUBJECT	FPA	NUMBER	FPA 324	TITLE	New Dance Composition

INSTRUCTIONS (OVERALL):

1. Using Microsoft Word draft changes using the following guideline. Paste in box below.
2. Rationale must be included. If more space is needed than provided below, please use the provided text box on page 2 of this document.
3. Indicate term = Fall, Spring, Summer

TYPE OF CHANGES RECOMMENDED

Please type 'X' for the appropriate revision(s):

Course number		Credit	Title	X	Description	Prerequisite	Deletion

WORDING/DESCRIPTION EDITS

1. Indicate deleted or changed text using ~~strikethrough~~.
2. Indicate added or new text using underline.
3. Equivalent courses: preclusion statement should read:
   a. Students with credit for x cannot take y for further credit.

Students will be introduced to traditional choreographic structures and explore new directions in composition. Emphasis will be on the creation and analysis of work generated by extending the parameters of source, style and form in contemporary dance. Prerequisite: FPA 124, 228W, 285. Quantitative.

RATIONALE

If more space is needed, please use the provided text box on page 2 of this document

FPA 228 is a writing intensive course (W) and this was missing from the calendar entry.

EFFECTIVE TERM AND YEAR, FOR CHANGES

~~Summer~~ 2016   FALL

SFU

SENATE COMMITTEE ON
UNDERGRADUATE STUDIES

| COURSE SUBJECT | FPA | NUMBER | FPA 326 | TITLE | Repertory I |

INSTRUCTIONS (OVERALL):

1. Using Microsoft Word draft changes using the following guideline. Paste in box below.
2. Rationale must be included. If more space is needed than provided below, please use the provided text box on page 2 of this document.
3. Indicate term = Fall, Spring, Summer

TYPE OF CHANGES RECOMMENDED

Please type 'X' for the appropriate revision(s):

	Course number		Credit		Title		Description	X	Prerequisite		Deletion

WORDING/DESCRIPTION EDITS

1. Indicate deleted or changed text using ~~strikethrough~~.
2. Indicate added or new text using underline.
3. Equivalent courses: preclusion statement should read:
   a. Students with credit for x cannot take y for further credit.

One of two courses which provide advanced level dance students the opportunity to work as an ensemble rehearsing and preparing for a series of public performances. Choreography will be created and/or selected by a faculty director. Prerequisite: Acceptance into the dance major or extended minor, and prior approval. Corequisite: students must be concurrently enrolled in one technique course at an appropriate level. <u>These courses include FPA 220, FPA 320, FPA 322, FPA 420, and FPA 421.</u>

RATIONALE

If more space is needed, please use the provided text box on page 2 of this document

The dance area is adding the specific technique courses listed as co-requisites for FPA 326. This will improve the coding when students register for the course.

EFFECTIVE TERM AND YEAR. FOR CHANGES

~~Summer~~ 2016 **FALL**

| COURSE SUBJECT | FPA | NUMBER | 305 | TITLE | Explorations in Contemporary Arts I |

INSTRUCTIONS (OVERALL):

1. Using Microsoft Word draft changes using the following guideline. Paste in box below.
2. Rationale must be included. If more space is needed than provided below, please use the provided text box on page 2 of this document.
3. Indicate term = Fall, Spring, Summer

TYPE OF CHANGES RECOMMENDED

Please type 'X' for the appropriate revision(s):

	Course number		Credit		Title		Description	X	Prerequisite		Deletion

WORDING/DESCRIPTION EDITS

1. Indicate deleted or changed text using ~~strikethrough~~.
2. Indicate added or new text using underline.
3. Equivalent courses: preclusion statement should read:
   a. Students with credit for x cannot take y for further credit.

> Exploration of a disciplinary or interdisciplinary research topic with School for the Contemporary Arts faculty. Focuses on studio-based project(s), and attention will be paid to theoretical and historical contexts. Prerequisite: ~~60 units, including at least 30 units in FPA.~~ 30 units in FPA.

RATIONALE

If more space is needed, please use the provided text box on page 2 of this document

> The School for the Contemporary Arts would like to make FPA 305 more accessible to students in the third year of study by lowering the number of required prerequisites.

EFFECTIVE TERM AND YEAR, FOR CHANGES

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

> ~~Summer~~ 2016   FALL

January 2015

SFU

SENATE COMMITTEE ON
UNDERGRADUATE STUDIES

| COURSE SUBJECT | FPA | NUMBER | 308 | TITLE | Contemporary Arts Field School I |

INSTRUCTIONS (OVERALL):

1. Using Microsoft Word draft changes using the following guideline. Paste in box below.
2. Rationale must be included. If more space is needed than provided below, please use the provided text box on page 2 of this document.
3. Indicate term = Fall, Spring, Summer

TYPE OF CHANGES RECOMMENDED

Please type 'X' for the appropriate revision(s):

	Course number		Credit	Title	X	Description	X	Prerequisite		Deletion

WORDING/DESCRIPTION EDITS

1. Indicate deleted or changed text using ~~strikethrough~~
2. Indicate added or new text using underline.
3. Equivalent courses: preclusion statement should read:
   a. Students with credit for x cannot take y for further credit.

> A scholarly exploration of artistic traditions and practices in the country being visited, with special attention to cultural, theoretical, historical and political contexts. ~~Students with credit for FPA 289, 311, 329, 337, 388 or 389 offered under this topic may not take this course for further credit.~~ Prerequisite: A minimum of ~~60~~ 30 units and approval of Field School Director.

RATIONALE

If more space is needed, please use the provided text box on page 2 of this document

> The School for the Contemporary Arts would like to make the field school courses more accessible to students in the third year of study by lowering the number of required prerequisites. We are also removing unnecessary requirements related to repeating courses.

EFFECTIVE TERM AND YEAR, FOR CHANGES

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

| ~~Summer~~ 2016   FALL |

January 2015

SFU

SENATE COMMITTEE ON
UNDERGRADUATE STUDIES

| COURSE SUBJECT | FPA | NUMBER | 309 | TITLE | Contemporary Arts Field School II |

INSTRUCTIONS (OVERALL):

1. Using Microsoft Word draft changes using the following guideline. Paste in box below.
2. Rationale must be included. If more space is needed than provided below, please use the provided text box on page 2 of this document.
3. Indicate term = Fall, Spring, Summer

TYPE OF CHANGES RECOMMENDED

Please type 'X' for the appropriate revision(s):

	Course number		Credit		Title	X	Description	X	Prerequisite		Deletion

WORDING/DESCRIPTION EDITS

1. Indicate deleted or changed text using ~~strikethrough~~.
2. Indicate added or new text using <u>underline</u>.
3. Equivalent courses: preclusion statement should read:
   a. Students with credit for x cannot take y for further credit.

> Students receive training in selected forms of dance, film, video, theatre, music, visual art and other forms of art production in the country being visited, with the opportunity of interacting with local people, artists and academics. ~~Students with credit for FPA 289, 311, 329, 337, 388 or 389 offered under this topic may not take this course for further credit.~~ Prerequisite: A minimum of ~~60~~ <u>30</u> units and permission of Field School Director.

RATIONALE

If more space is needed, please use the provided text box on page 2 of this document

> The School for the Contemporary Arts would like to make the field school courses more accessible to students in the third year of study by lowering the number of required prerequisites. We are also removing unnecessary requirements related to repeating courses.

EFFECTIVE TERM AND YEAR, FOR CHANGES

| ~~Summer~~ 2016   FALL |

January 2015

SFU

SENATE COMMITTEE ON
UNDERGRADUATE STUDIES

COURSE SUBJECT	FPA	NUMBER	405	TITLE	Explorations in Contemporary Arts II

INSTRUCTIONS (OVERALL):

1. Using Microsoft Word draft changes using the following guideline. Paste in box below.
2. Rationale must be included. If more space is needed than provided below, please use the provided text box on page 2 of this document.
3. Indicate term = Fall, Spring, Summer

TYPE OF CHANGES RECOMMENDED

Please type 'X' for the appropriate revision(s):

	Course number		Credit		Title		Description	X	Prerequisite		Deletion

WORDING/DESCRIPTION EDITS

1. Indicate deleted or changed text using ~~strikethrough~~.
2. Indicate added or new text using underline.
3. Equivalent courses: preclusion statement should read:
   a. Students with credit for x cannot take y for further credit.

Exploration of a disciplinary or interdisciplinary research topic with School for the Contemporary Arts faculty. Focuses on studio-based project(s), and attention will be paid to theoretical and historical contexts. ~~Students with credit for FPA 389 under this topic may not take this course for further credit.~~ Prerequisite: ~~60 units, including at least~~ 30 units in FPA.

RATIONALE

If more space is needed, please use the provided text box on page 2 of this document

The School for the Contemporary Arts would like to make the field school courses more accessible to students in the third year of study by lowering the number of required prerequisites. We are also removing unnecessary requirements related to repeating courses.

EFFECTIVE TERM AND YEAR. FOR CHANGES

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

~~Summer~~ 2016   FALL

SFU

SENATE COMMITTEE ON
UNDERGRADUATE STUDIES

| COURSE SUBJECT | FPA | NUMBER | 408 | TITLE | Contemporary Arts Field School III |

INSTRUCTIONS (OVERALL):

1. Using Microsoft Word draft changes using the following guideline. Paste in box below.
2. Rationale must be included. If more space is needed than provided below, please use the provided text box on page 2 of this document.
3. Indicate term = Fall, Spring, Summer

TYPE OF CHANGES RECOMMENDED

Please type 'X' for the appropriate revision(s):

	Course number		Credit	Title	X	Description	X	Prerequisite		Deletion

WORDING/DESCRIPTION EDITS

1. Indicate deleted or changed text using ~~strikethrough~~.
2. Indicate added or new text using underline.
3. Equivalent courses: preclusion statement should read:
   a. Students with credit for x cannot take y for further credit.

A scholarly exploration of artistic traditions and practices in the country being visited, with special attention to cultural, theoretical, historical and political contexts. ~~Students with credit for FPA 289, 311, 329, 337, 388 or 389 offered under this topic may not take this course for further credit.~~ Prerequisite: A minimum of ~~60~~ 30 units and approval of Field School Director.

RATIONALE

If more space is needed, please use the provided text box on page 2 of this document

The School for the Contemporary Arts would like to make the field school courses more accessible to students in the third year of study by lowering the number of required prerequisites. We are also removing unnecessary requirements related to repeating courses.

EFFECTIVE TERM AND YEAR, FOR CHANGES

~~Summer~~ 2016   FALL

January 2015

SFU

COURSE SUBJECT IAT   **NUMBER** 499

COURSE TITLE
LONG — for Calendar/schedule, no more than 100 characters including spaces and punctuation

Graduation Project

AND
SHORT — for enrollment/transcript, no more than 30 characters including spaces and punctuation

CAMPUS where course will be normally taught: ☐ Burnaby ■ Surrey ☐ Vancouver ☐ Great Northern Way ☐ Off campus

COURSE DESCRIPTION (FOR CALENDAR). 50 WORDS MAXIMUM. ATTACH A COURSE OUTLINE TO THIS PROPOSAL

Students will complete a project of significant size and scope that allows them to bring together skills and knowledge learned across a variety of courses at SIAT. They will produce a design, media, or interactive system artifact that is of a high caliber ('portfolio' quality) along with a detailed report of the project activities completed throughout the term, the methods or processes used, the knowledge learned, and a description of the final outcomes. Projects will be presented publicly at an end-of-term graduation showcase.

REPEAT FOR CREDIT ☐ YES ■ NO   How many times? [   ]   Within a term? ☐ YES ■ NO

LIBRARY RESOURCES
NOTE: Senate has approved (S.93-11) that no new course should be approved by Senate until funding has been committed for necessary library materials. Each new course proposal must be accompanied by a library report and, if appropriate, confirmation that funding arrangements have been addressed.

Library report status, see lib.sfu.ca/collections/course-assessments   **No resources required**

RATIONALE FOR INTRODUCTION OF THIS COURSE
If more space is needed, please use the provided text box on page 4 of this document

Graduation Project (IAT499) is replacing the IAT Capstone courses (IAT 402/403 and 404/405) which respectively addressed either the SIAT BA or the BSc degree. Enrollment in these courses has stagnated over the last few years due to their structured delivery model and content focus, yet we still see evidence from students that they find value in a 'capstone' experience in their final year of study. To enhance the fourth year learning experience, we have created a new version of the 'capstone' course that addresses the challenges in our first offering. A more flexible instructional model provides students with an opportunity to work with faculty and mentors in their disciplinary content area.

We are introducing IAT499 as a new course with a new number (rather than reusing IAT 402/403 and 404/405) to create a new identity for the course. SIAT is currently re-visioning the fourth year experience, in an effort to provide students with meaningful summative learning experiences that map to our current educational goals.

This course complements our Honours courses (IAT490/491), which provide students with an opportunity to learn how to conduct scholarly research (scientific or social science) and an opportunity to complete a portfolio quality project under the supervision of a research faculty member. IAT499 is not focused on research though students will be required to conduct some degree of research in order to complete their projects.

SCHEDULING AND ENROLLMENT INFORMATION
Term and year course would first be offered (e.g. FALL 2014) **Fall 2016**

Term(s) in which course will typically be offered ■ Spring ☐ Summer ■ Fall

☐ Other *(describe)* [   ]

Will this be a required or elective course in the curriculum? ☐ Required ■ Elective

What is the probable enrollment when offered? Estimate: **20**

UNITS

Indicate number of units: 6

Indicate no. of contact hours for: [ ] Lecture [3] Seminar [ ] Tutorial [ ] Lab [ ] Other – please explain

OTHER

Students will attend a weekly lecture/seminar led by a faculty lead. This class will include the teaching of materials pertinent to large scale graduation projects, student presentations of their project progress, and project critiques and discussions.

FACULTY Which of your present CFL faculty have the expertise to offer this course?

The course will be organized and overseen by a faculty lead who will provide breadth knowledge to the students on large-scale graduation projects (e.g., project planning, report writing, professional ethics). A weekly seminar will be facilitated by the faculty lead. Faculty mentors will provide depth knowledge on particular student topics. Students may optionally have an industry mentor, in addition to the faculty mentor.

All of our faculty have expertise that would allow them to be faculty mentors for specific student projects. Approximately one half of our faculty would have breadth knowledge covering a variety of topic areas pertinent to SIAT students such that they could be the faculty lead for the course.

WQB DESIGNATION (attach approval from Curriculum Office)

None

PREREQUISITE AND / OR COREQUISITE

Completion of 90 credits (ensuring a 4th year equivalent student), including 18 upper division IAT units plus IAT 309W. Enrollment is competitive - each term we will enroll a maximum of 20 students or teams based on the strongest student project ideas and CGPA.

EQUIVALENT COURSES

Does this course replicate the content of a previously-approved course to such an extent that students should not receive credit for both courses?

N/A

COURSE – LEVEL EDUCATIONAL GOALS (OPTIONAL)

see page 4.

FEES

Are there any proposed student fees associated with this course other than tuition fees? [ ] YES [■] NO

RESOURCES

List any outstanding resource issues to be addressed prior to implementation: space, laboratory equipment, etc:

There are no outstanding resource issues that would need to be addressed prior to implementation.

Students will require existing resources that are already available at SFU and SIAT, including library access, classroom space, media production rooms (e.g., green screen room), team meeting rooms, and access to use SIAT's Solid Space.

OTHER IMPLICATIONS

Final Exam required: ☐ YES   ■ NO

Criminal Record Check required: ☐ YES   ☐ NO

OVERLAP CHECK

Checking for overlap is the responsiblity of the Associate Dean.

Each new course proposal must have confirmation of an overlap check completed prior to submission to the Faculty Curriculum Committee.

Name of Originator

Dr. Carman Neustaedter, School of Interactive Arts and Technology

RATIONALE

More space if needed.

GENERAL EDUCATIONAL GOALS (General goals for all students in IAT 499)
Critical Thinking
• Select and work appropriately with sources: find, analyze, interpret and evaluate a range of source materials.
• Systematically generate arguments: apply research processes to develop clearly articulated arguments to support and justify a position, stance or point-of-view..
• Analyze and evaluate arguments: critically examine and evaluate arguments and their implications from multiple perspectives.
• Synthesize sources, research and personal voice: synthesize new information using knowledge from experience, research, courses, and scholarly work.
Written and Oral Communication
• Present clear and concise written ideas, knowledge and arguments in a structured form.
• Deliver oral ideas, knowledge, argument in a clear, concise form.
• Present ideas with digital media in a clear, concise and well-structured form.
• Choose appropriate forms and channels of communication for diverse audiences including lay, cross-cultural, cross-disciplinary, and professional audiences.
Teamwork
• Collaborate with colleagues to achieve individual and shared roles and tasks.
• Establish and maintain accountability within a team.
• Select and use appropriate collaborative practices to meet project requirements.
• Select and use planning tools for team management and organization.
• Apply decision-making and conflict resolution strategies.
• Apply effective leadership and management skills.
Ethics and Professionalism
• Know and apply standards of ethical practice.
• Know and apply academic and creative integrity.
• Know social responsibility.

SIAT SPECIFIC EDUCATIONAL GOALS (Individual goals developed by students in their design, media, and programming areas)

Technological Literacy
Ability to:
• Select and apply best practices using standard technologies.
• Select and apply appropriate theoretical concepts and frameworks to technology design.
• Reflect critically on the social, ethical and theoretical implications of technology and human technology interaction.
Design Proficiency
• Employ a design process to solve both open-ended and constrained problems.
• Utilize lateral and creative thinking strategies to generate new ideas and develop novel solutions.
• Test and evaluate design processes, methods and artifacts.
• Critique and apply feedback to iterative design processes, methods and artifacts.
Media Proficiency
• Demonstrate application of theoretical concepts, frameworks and approaches within media practice.
• Critically evaluate socio-technical systems and cultural contexts within media practice.
• Demonstrate creativity and apply aesthetic principles to a concept through the creation of visual, sonic, kinaesthetic, time-based, and interactive media.
Programming Proficiency
• Design and implement algorithms and systems using standard programming languages.
• Write and debug code to complete tasks in areas such as web development, interaction design and creative media.
• Modify existing systems and algorithms to meet new specifications.
Practices of Making
• Situate practice within a historical context.
• Apply the appropriate aesthetic properties of form, materials and interaction to design and computational artifacts.
• Build material prototypes at appropriate and various levels of fidelity.
• Utilize and develop tools, processes and methods as part of making.
• Develop and refine designs from low to high fidelity prototypes.