



**SOUTH DAKOTA BOARD OF REGENTS
ACADEMIC AFFAIRS FORMS**

Institutional Substantive Program Modification Requests

Institution: Dakota State University **Date:** 3-14-22

Institutional representatives should provide direct links to PDF documents for each of the program modification requests represented below. All requests should be posted on the campus Curriculum and Instruction website one week prior to the Academic Affairs Council meeting where the program modification request is being considered.

<i>Program Title</i>	<i>Approval Date</i>	<i>Approval</i>
B.S. Digital Arts and Design	5/6/22	RH
Ph.D. Cyber Operations	5/6/22	RH

Program modifications referenced above for approval have been reviewed by the Academic Affairs Council and the System Vice President for Academic Affairs and may be advanced forward for entry in the student information system. For those program modifications listed above that did not receive approval, additional clarification or justification will be necessary and should be re-routed through the review process on a separate “Institutional Substantive Program Modification Requests” form once all issues have been resolved.

Signature: System Vice President for Academic Affairs

5/2/2022

Date



**SOUTH DAKOTA BOARD OF REGENTS
ACADEMIC AFFAIRS FORMS**

Substantive Program Modification Form

Use this form to request minor changes in existing programs (majors, minors, certificates, or specializations).

UNIVERSITY:	DSU
CURRENT PROGRAM DEGREE:	Bachelor of Science
CURRENT PROGRAM MAJOR/MINOR:	Digital Arts and Design, B.S.
CURRENT SPECIALIZATION (If applicable):	Computer Graphics, Production Animation, & Digital Sound Design
CIP CODE:	11.0803
UNIVERSITY DEPARTMENT:	Fine and Applied Arts
BANNER DEPARTMENT CODE:	DARTS
UNIVERSITY COLLEGE:	College of Arts and Sciences
BANNER COLLEGE CODE:	8A- DAS

University Approval

To the Board of Regents and the Executive Director: I certify that I have read this proposal, that I believe it to be accurate, and that it has been evaluated and approved as provided by university policy.

Vice President of Academic Affairs or
President of the University

2/17/2022

Date

1. This modification addresses a change in (place an "X" in the appropriate box):

- | | |
|---|--|
| <input type="checkbox"/> Total credits required within the discipline | <input type="checkbox"/> Total credits of supportive course work |
| <input checked="" type="checkbox"/> Total credits of elective course work | <input type="checkbox"/> Total credits required for program |
| <input type="checkbox"/> Program name | <input checked="" type="checkbox"/> Existing specialization |
| <input type="checkbox"/> CIP Code | <input type="checkbox"/> Other (explain below) |

2. Effective date of change: 8/9/2022

3. Program Degree Level (place an "X" in the appropriate box):

Associate Bachelor's Master's Doctoral

4. Category (place an “X” in the appropriate box):

Certificate Specialization Minor Major

5. If a name change is proposed, the change will occur (place an “X” in the appropriate box):

- On the effective date for all students (for all 2021-2022 catalog year enrolled students?)
 ← can I add this?
- On the effective date for students new to the program (enrolled students will graduate from existing program)

Proposed new name: _____

Reminder: Name changes may require updating related articulation agreements, site approvals, etc.

6. Primary Aspects of the Modification (add lines or adjust cell size as needed):

Existing Curriculum				Proposed Curriculum			
Pref	Num	Title	Cr. Hrs.	Pref	Num	Title	Cr. Hrs.
General Education Requirement			30	General Education Requirement			30
Students in the Computer Graphics Specialization and the Production Animation Specialization must take ART 121 as part of the System wide General Education Requirement.				Students in the Computer Graphics Specialization and the Production Animation Specialization must take ART 121 as part of the System wide General Education Requirement.			
Major Core Requirements			12	Major Core Requirements			13
CSC	105	Introduction to Computers	3	CSC	105	Introduction to Computers	3
DAD	110	Introduction to Digital Arts & Design	1	DAD	110	Introduction to Digital Arts & Design	1
DAD	482	Career Preparation: Digital Arts & Design	1				
DAD	494	Internship	1	DAD	494	Internship	3
DAD	498	Undergraduate Research/Scholarship	3	DAD	498	Undergraduate Research/Scholarship	3
Choose one course from the following:			3	Choose one course from the following:			3
CSC	123	Problem Solving & Programming		CSC	123	Problem Solving & Programming	
CSC	150	Computer Science I*		CSC	150	Computer Science I*	
CIS	130	Visual Basic Programming		CIS	130	Visual Basic Programming	
*Digital Sound Design specialization must take CSC 150				*Digital Sound Design specialization must take CSC 150			
Computer Graphic Specialization			66	Computer Graphic Specialization			63
ART	111	Drawing I	3	ART	111	Drawing I	3
ART	122	Design II – Color	3	ART	122	Design II – Color	3

ART	123	3D Design	3	ART	123	3D Design	3
ART	231	Painting I	3	ART	231	Painting I	3
ARTD	185	Intro to Animation	3	ARTD	185	Intro to Animation	3
ARTD	245	History of Graphics	3	ARTD	245	History of Graphics	3
ARTD	280	Digital Photography I	3	ARTD	280	Digital Photography I	3
ARTD	282	2D Design on Computer I	3	ARTD	282	2D Design on Computer I	3
ARTD	285	2D Design on Computer II	3	ARTD	285	2D Design on Computer II	3
ARTD	306	Graphics Applications	3	ARTD	306	Graphics Applications	3
ARTD	339	Computer Graphics Design	3	ARTD	339	Computer Graphics Design	3
ARTD	356	Digital Painting	3	ARTD	356	Digital Painting	3
ARTD	380	Digital Photography II	3	ARTD	380	Digital Photography II	3
ARTD	382	3-D Animation, Modeling, and Concepts	3	ARTD	382	3-D Animation, Modeling, and Concepts	3
ARTD	385	3-D Character Animation, Rigging & Lighting	3				
ARTD	431	Computer Graphic Effects I	3	ARTD	431	Computer Graphic Effects I	3
ARTD	432	Computer Graphic Effects II	3	ARTD	432	Computer Graphic Effects II	3
ARTD	480	Digital Photography 3	3	ARTD	480	Digital Photography 3	3
BADM	370	Marketing	3	BADM	370	Marketing	3
DAD	330	Film Editing I	3	DAD	330	Film Editing I	3
MCOM	362	Digital Typography	3	MCOM	362	Digital Typography	3
Choose one (1) courses from the following			3	Choose one (1) courses from the following			3
ARTH	211	History of World Art I	3	ARTH	211	History of World Art I	3
ARTH	212	History of World ART II	3	ARTH	212	History of World ART II	3
General Electives			12	General Electives			14
Production Animation Specialization			57	Production Animation Specialization			57
ART	111	Drawing I	3	ART	111	Drawing I	3
ART	122	Design II - Color	3	ART	122	Design II - Color	3
ART	123	3D Design	3	ART	123	3D Design	3
ART	213	Figure Drawing	3	ART	213	Figure Drawing	3
ARTD	185	Intro to Animation	3	ARTD	185	Intro to Animation	3
ARTD	250	2D Digital Animation	3	ARTD	250	2D Digital Animation	3
ARTD	282	2D Design on Computer I	3	ARTD	282	2D Design on Computer I	3
ARTD	286	Motion Graphics & Compositing	3	ARTD	286	Motion Graphics & Compositing	3
ARTD	289	Digital Ink and Paint 2D Track	3	ARTD	289	Digital Ink and Paint 2D Track	3
ARTD	350	Background Design/Character Design	3	ARTD	350	Background Design/Character Design	3
ARTD	356	Digital Painting	3	ARTD	356	Digital Painting	3

ARTD	382	3-D Animation, Modeling, and Concepts	3	ARTD	382	3-D Animation, Modeling, and Concepts	3
ARTD	385	3-D Character Animation, Rigging & Lighting	3	ARTD	385	3-D Character Animation, Rigging & Lighting	3
DAD	375	Storyboarding	3	DAD	375	Storyboarding	3
MUS	204	Introduction to Digital Sound Design	3	MUS	204	Introduction to Digital Sound Design	3
Choose one course from the following:			3	Choose one course from the following:			3
ARTD	245	History of Graphics	3	ARTD	245	History of Graphics	3
ARTH	211	History of World Art I	3	ARTH	211	History of World Art I	3
Choose 6 credits from the following:			6	Choose 6 credits from the following:			6
ARTD	386	2D Digital Animation Preproduction	3	ARTD	386	2D Digital Animation Preproduction	3
ARTD	442	2D Digital Animation - Production	3	ARTD	442	2D Digital Animation - Production	3
OR				OR			
ARTD	439	3D Animation Preproduction	3	ARTD	439	3D Animation Preproduction	3
ARTD	441	3D Animation - Production	3	ARTD	441	3D Animation - Production	3
Choose one course from the following:			3	Choose one course from the following:			3
BADM	360	Organization and Management	3	BADM	360	Organization and Management	3
BADM	370	Marketing	3	BADM	370	Marketing	3
General Electives			21	General Electives			20
Digital Sound Design Specialization			47	Digital Sound Design Specialization			47
CSC	163	Hardware, Virtualization and Data Communication	3	CSC	163	Hardware, Virtualization and Data Communication	3
CSC	274	Creative Coding	3	CSC	274	Creative Coding	3
CSC	374	Interdisciplinary Coding	3	CSC	374	Interdisciplinary Coding	3
DAD	222	Audio Production I	3	DAD	222	Audio Production I	3
DAD	310	Digital Soundtrack Production	3	DAD	310	Digital Soundtrack Production	3
DAD	322	Audio Production II	3	DAD	322	Audio Production II	3
DAD	350	Recording Session (offered as 2 cr. – students take twice)	4	DAD	350	Recording Session (offered as 2 cr. – students take twice)	4
DAD	422	Audio Production III	3	DAD	422	Audio Production III	3
DAD	424	Adv. Digital Sound Design	3	DAD	424	Adv. Digital Sound Design	3
ENGL	405	Media Studies	3	ENGL	405	Media Studies	3
MUAP	152	Applied Music	2	MUAP	152	Applied Music OR	2
				MUAP	115	Class Instruction-Keyboard	

MUEN	106	Singer/Songwriter Studio	2	MUEN	106	Singer/Songwriter Studio	2
MUS	108	Basic Musicianship for Audio/Music Industry	3	MUS	108	Basic Musicianship for Audio/Music Industry	3
MUS	109	Basic Musicianship II	3	MUS	109	Basic Musicianship II	3
MUS	204	Introduction to Digital Sound Design	3	MUS	204	Introduction to Digital Sound Design	3
MUS or DAD	492	Topics	3	MUS or DAD	492	Topics	3
General Electives			31	General Electives			30

7. Explanation of the Change:

- Change 1: DAD 494: Increase credit hours for Internship requirement (1 credit to 3 credits)
- Change 2: Remove DAD 482: Career Prep (1 credit)
- Change 3: Remove ARTD 385: 3D Character Animation from Computer Graphics
- Change 4: General Elective Credits for each specialization
- Change 5: Add MUAP 115 Class Instruction-Keyboards as a choice

Change 1: Increase credit hours for Internship requirement

Students in the Digital Arts and Design program will maintain the 120 working hour requirement, but it will now be reflected in a 3-course credit. Expectation will stay the same.

Change 2: Remove DAD 482: Career Prep

To accommodate the addition of more credit hours for the internship requirement, the DAD 482 content is merged into the internship requirement.

Change 3: Remove ARTD 385: 3D Character Animation from Computer Graphics

When the DAD program submitted curriculum changes last year (2020-2021), this was simply a clerical error, as this course was mistakenly added to this specialization.

Change 4: General Elective Credits for each specialization

Due to the increase in internship credit and removal of the Career Preparation class, adjustment in the general electives for each specialization is done to meet the requirement of 120 credit hours needed to earn a Bachelor of Science degree.

Change 5: Add MUAP 115 Class Instruction-Keyboards as a choice between MUAP 152 in the Digital Sound Design Specialization.



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Use this form to request minor changes in existing programs (majors, minors, certificates, or specializations).

UNIVERSITY:	DSU
CURRENT PROGRAM DEGREE:	Ph.D.
CURRENT PROGRAM MAJOR/MINOR:	Cyber Operations
CURRENT SPECIALIZATION (If applicable):	NA
CIP CODE:	11.1003
UNIVERSITY DEPARTMENT:	Computer Science
BANNER DEPARTMENT CODE:	DSCI
UNIVERSITY COLLEGE:	Beacom College of Computer and Cyber Sciences
BANNER COLLEGE CODE:	8N - DCOC

University Approval

To the Board of Regents and the Executive Director: I certify that I have read this proposal, that I believe it to be accurate, and that it has been evaluated and approved as provided by university policy.

Vice President of Academic Affairs or
President of the University

3/4/2022

Date

1. This modification addresses a change in (place an "X" in the appropriate box):

- | | |
|---|--|
| <input type="checkbox"/> Total credits required within the discipline | <input type="checkbox"/> Total credits of supportive course work |
| <input checked="" type="checkbox"/> Total credits of elective course work | <input type="checkbox"/> Total credits required for program |
| <input type="checkbox"/> Program name | <input type="checkbox"/> Existing specialization |
| <input type="checkbox"/> CIP Code | <input type="checkbox"/> Other (explain below) |

2. Effective date of change: 8/22/2022

3. Program Degree Level (place an "X" in the appropriate box):

- Associate Bachelor's Master's Doctoral

4. Category (place an “X” in the appropriate box):

Certificate Specialization Minor Major

5. If a name change is proposed, the change will occur (place an “X” in the appropriate box):

- On the effective date for all students
- On the effective date for students new to the program (enrolled students will graduate from existing program)

Proposed new name: _____

Reminder: Name changes may require updating related articulation agreements, site approvals, etc.

6. Primary Aspects of the Modification (add lines or adjust cell size as needed):

<i>Existing Curriculum</i>				<i>Proposed Curriculum (highlight changes)</i>			
Pref.	Num.	Title	Cr. Hrs.	Pref.	Num.	Title	Cr. Hrs.
Core Courses (15 Credits)				Core Courses (15 Credits)			
CSC	840	Cyber Operations I	3	CSC	840	Cyber Operations I	3
CSC	841	Cyber Operations II	3	CSC	841	Cyber Operations II	3
CSC	844	Advanced Reverse Engineering	3	CSC	844	Advanced Reverse Engineering	3
CSC	846	Advanced Malware Analysis	3	CSC	846	Advanced Malware Analysis	3
CSC	848	Advanced Software Exploitation	3	CSC	848	Advanced Software Exploitation	3
Research Core (9 Credits)				Research Core (9 Credits)			
CSC	803	An Introduction to Cyber Security	3				
CSC	804	Cyber Security Research Methodology	3	CSC	804	Computer and Cyber Science Research Methodology	3
CSC	807	Cyber Security Research	3	CSC	807	Computer and Cyber Science Research Design and Implementation	3
				CSC	890	Seminar: Research 1 credit each	3
On-Site Research (3 Credits)				On-Site Research (3 Credits)			
CSC	890	Seminar: On-site Research Seminar 1 credit each	3	CSC	890	Seminar: On-site Research Seminar 1 credit each	3
Dissertation (25 Credits)				Dissertation (19 Credits)			
CSC	809	Dissertation Preparation	3	CSC	809	Dissertation Preparation	3
CSC	898D	Dissertation (1-22 credits)	22	CSC	898D	Dissertation (1-16 credits)	16
Electives (9 Credits)				Electives (15 Credits)			
Any 700 or 800 level course offering with a CSC, INFA or INFS prefix (subject to elective program approval).				Any 700 or 800 level course offering with a CSC, INFA or INFS prefix (subject to elective program approval).			
Total number of hours required for major, minor, or specialization			61	Total number of hours required for major, minor, or specialization			61

Total number of hours required for degree 61

Total number of hours required for degree 61

7. Explanation of the Change:

Ph.D. in Cyber Operations program curriculum is modified based on the new restructured research courses in the Beacom College.

- CSC803 An Introduction to Cyber Security Research (3 credits) is eliminated from the research core. The research core now includes requirement of 3 credits CSC890 Seminar (1 credit each). CSC890 Seminar will be offered in the Fall semester each term. Students are required to present approved research papers and participate in discussions in the seminar.
- CSC804 Computer and Cyber Science Research Methodology: minor course name modification due to the restructure of the research courses.
- CSC807 Computer and Cyber Science Research Design and Implementation: minor course name modification due to the restructure of the research courses.
- CSC898D Dissertation and Electives: change dissertation credits from 22 to 16 and increase elective credits from 9 to 15. The changes provide students opportunities to take two more elective courses in cyber operations. This is especially important for the students who are admitted to the program from non-DSU schools. The cyber operations programs including the undergraduate and the graduate programs at DSU prepare students very well for doctoral studies. Allowing two more elective courses will be very beneficial for non-DSU students to utilize the existing curriculum in our cyber operations program. Further, as more graduate courses become available at DSU, e.g., courses in Artificial Intelligence, allowing two more elective courses will also be very beneficial to the students who are admitted to the program from the DSU.