

### ACADEMIC FREEDOM STATEMENT

Brooks Institute is committed to protecting and encouraging the principles of academic freedom. Academic freedom provides the foundation for scholarship, teaching and learning, and reflects the Institutes fundamental mission to promote collaboration, critical thinking, and creativity. Essential elements for the intellectual vitality of a college include: the ability to exchange ideas and concepts freely, to explore and disseminate new knowledge, and to speak openly as a professional and as a private citizen. All are encouraged to promote a learning environment that provides opportunities for the free exchange of ideas between faculty, staff and students.

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### Programmatic Student Learning Outcomes/Mission

Graduates of the MS in Scientific and Technological Imaging are prepared to meet the challenges of communicating science, technology, and innovation, through visual media. Graduates will leverage skills in project management to ensure the effective production, integration, archiving and distribution of media content in support of scientific research, education, museum collections and research documentation, preservation, and communication.

### Program Description

The Master of Science in Scientific and Technological Imaging (MSSTI) is a four-semester, 36-credit, low residency master's program. The program provides an advanced course of study that requires students to explore and effectively apply scientific and technical media imaging methods to meet the challenges of communicating scientific knowledge, technological innovation, research findings, museum collections, and related content to a diverse global audience. The program stresses project and production management skills to ensure the effective production, integration, archiving and distribution of media content.

### Learning Outcomes:

Upon completion of the program, students should be able to:

- Apply critical thinking skills to analyze and create effective visual media to educate, inform, and communicate to a global audience (Visual Literacy, Problem Solver)
- Create media content using diverse scientific and technical imaging methods and tools to communicate, interpret and document subject matter (Adept, Global)
- Effectively manage media assets to ensure efficient workflow, distribution, sharing and stable archiving (Adept)
- Identify, articulate and apply ethical principals in relation to visual and verbal media representations, and business/professional practices (Ethics)
- Communicate clearly and effectively, both orally and in writing, in a professional environment (Communication)
- Apply an understanding of project and business management to successfully organize and complete projects as an individual and in collaborative teams (Collaboration)

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<b>Course Title</b>	<b>Advanced Production Workshop</b>
<b>Course Code</b>	<b>MSS647</b>

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Credit Hours	2 Semester
Prerequisites	Program Chair Approval

# Course Syllabus

Course Type            100% Online Delivery  
Instructor             TBA  
Email  
Telephone  
Term Start/End Date

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## Course Description - Elective

Production management, problem-solving skills and the ability to execute accurate and effective visual communication projects are critical skills in the field of scientific and technological imaging. This elective course would provide an opportunity for students to engage in advanced specialized multi-media projects, most likely working in a scientific, industrial or museum facility. In order to enroll in this course, students must submit a proposal that details the learning and production outcomes, and obtain approval from the Program Chair.

*Note regarding MSS647:* With the approval of the Program Chair, students who demonstrate advanced capabilities or advantageous opportunities may substitute MSS647 Advanced Production Workshop for one of the following courses, if the MSS647 course will accomplish the learning outcomes of the course. A course cannot count as both an elective and a required program course; the student must still have 4 credits of electives and a total of 36 credit hours to complete the program.

MSS532 Multimedia Methods 1: Content Creation

MSS642 Multimedia Methods II: Presentation

## Learning Objectives

Upon completion of this course the student should be able to:

1. Apply critical thinking skills to produce challenging technical imaging projects
2. Apply effective project management skills to design and execute projects with successful outcomes
3. Communicate research findings and production documentation to others in verbal and multimedia form
4. Produce imaging projects that will contribute to the student's capabilities portfolio

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Required Textbook(s) and/or Media:

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## Course Outline

**Week 1:** Course introduction; Online discussion

**Week 2:** Online research; Online discussion; project production

**Week 3:** Online research; Online discussion; project production

**Week 4:** Online research; Online discussion; project production

**Week 5:** Online research; Online discussion; project production

**Week 6:** Online research; Online discussion; project production

**Week 7:** Online research; Online discussion; project production

**Week 8:** Online research; Online discussion; project production

**Week 9:** Online research; Online discussion; project production

# Course Syllabus

**Week 10:** Online research; Online discussion; project production

**Week 11:** Online research; Online discussion; project production

**Week 12:** Online research; Online discussion; project production

**Week 13:** Online research; Online discussion; project production

**Week 14:** Online research; Online discussion; project production

**Week 15:** Online research; Online discussion; project presentation

## GENERAL ASSESSMENT CRITERIA AND METHODS OF EVALUATING STUDENTS

Letter grades (A, A-, B+, B, etc.)

The student's overall grade for this class is derived from a combination of online instructional activities, class participation (discussion forum postings), assignments, quizzes and exams, projects, and final project/final exam. Only the instructor can authorize exceptions to class policies, deadlines or grades. Students must confirm (in writing) any exceptions to class policies or deadlines with the instructor. Class work is weighted as follows:

Grade Weighting		Grading Scales		
Course Area	%	Percent	Letter	Numeric
Participation	10	93–100	A	4.00
Production Notebook	15	90–92	A-	3.70
Media Management	5	87–89	B+	3.30
Media Portfolio	70	83–86	B	3.00
		80–82	B-	2.70
		77–79	C+	2.30
		73–76	C	2.00
		70–72	C-	1.70
		67–69	D+	1.30
		60–66	D	1.00
<b>Total</b>	<b>100%</b>	0–59	F	0.00

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### DEFINITIONS OF CRITERIA USED IN GRADING

Outstanding = A	Outstanding work, showing insight and demonstrating excellence in skill and craft. Work goes well beyond what is required
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Superior = A-, B+	Superior work, shows clear understanding and thorough demonstration of skill and craft
Good = B, B-	Competent work, clear understanding, often showing creativity and good use of skills
Satisfactory = C+, C, C-	Adequate understanding, inconsistent demonstration of skills, some elements missing or problems with priorities
Unsatisfactory = D, F	Lacks understanding, inadequate amount of time and effort demonstrated, many missing elements, inconsistent participation, skill and craftsmanship not demonstrated

## ACADEMIC INTEGRITY STATEMENT

Brooks Institute expects all students to exemplify integrity in all academic work. Brooks Institute will not permit students to engage in the following dishonest acts:

- **Cheating** – Cheating includes, but is not limited to, the following: using unauthorized notes, study aids, electronic or other devices not authorized by the instructor. Using or borrowing information from another person, or submitting someone else’s work as one’s own work including images and reels. Using work previously submitted for another purpose, without the instructor’s permission, is prohibited. Duplicated use of copyrighted material in violation of federal copyright laws will not be tolerated.
- **Plagiarism** – Submitting as one’s own work, in whole or in part, words, ideas, art, designs, text, drawings, images, reels, etc. that were produced by another person without attributing that person as the rightful source of the work. Plagiarism includes, but is not limited to: using words, word passages, pictures, etc. without acknowledgement; paraphrasing ideas without quotation marks or without citing the source; submitting work that resembles someone else’s beyond what would be considered a tolerable coincidence; ideas, conclusions, information found on a student paper which the student cannot explain, amplify or demonstrate knowledge upon questioning.
- **Accessory to Dishonesty** – Knowingly and willfully supplying material or information to another person for the purpose of using the material or information improperly.
- **Falsification or Alteration of Records and Official Documents** - The following are examples of acts under this category, but the list is not exhaustive: altering academic records, forging a signature or authorization on an academic document, or falsifying information on official documents, grade reports, or any other document designed to attest to compliance with school regulation or to exempt from compliance.
- **Software Code of Ethics** – Unauthorized duplication of copyrighted computer software violates the law and is contrary to our organization’s standards of conduct. Brooks Institute disapproves of such copying and recognizes the following principles as a basis for preventing its occurrence:
  - Brooks Institute will neither engage in nor tolerate the making or using of unauthorized software copies under any circumstances.
  - Brooks Institute will only use legally acquired software on our computers.
  - Brooks Institute will comply with all license or purchase terms regulating the use of any software we acquire or use.
  - Brooks Institute will enforce strong internal controls to prevent the making or using of unauthorized software copies, including effective measures to verify compliance with these standards and appropriate disciplinary measure for violation of these standards.

# Course Syllabus

## CREDIT ASCRIPTION ADDENDUM

**MSS647 Advanced Production Workshop - 2 semester credit hours**

**Type: 100% Online Delivery**

**Credit Ascription – The amount of hours spent to participate in the course and complete projects, and the assignment alignment with Course Learning Objectives**

Course Learning Objectives:

1. Apply critical thinking skills to produce challenging technical imaging projects
2. Apply effective project management skills to design and execute projects with successful outcomes
3. Communicate research findings and production documentation to others in verbal and multimedia form
4. Produce imaging projects that will contribute to the student's capabilities portfolio

The following indicates the **minimum** number of hours per assignment:

<b>Week</b>	<b>Assignment Title</b>	<b>Hours</b>	<b>Assignment Objectives</b>
<b>1</b>	• Synchronous online meeting	1.5	1, 2, 3, 4
	• Discussion Forum participation	1.5	1, 2, 3, 4
	• Assignment Production	2	1, 2, 3, 4
<b>2</b>	• Online multimedia presentation and/or research	1.5	1, 2, 3, 4
	• Discussion Forum participation	1.5	1, 2, 3, 4
	• Assignment Production	2	1, 2, 3, 4
<b>3</b>	• Online multimedia presentation and/or research	1.5	1, 2, 3, 4
	• Discussion Forum participation	1.5	1, 2, 3, 4
	• Assignment Production	2	1, 2, 3, 4
<b>4</b>	• Online multimedia presentation and/or research	1.5	1, 2, 3, 4
	• Discussion Forum participation	1.5	1, 2, 3, 4
	• Assignment Production	2	1, 2, 3, 4
<b>5</b>	• Online multimedia presentation and/or research	1.5	1, 2, 3, 4
	• Discussion Forum participation	1.5	1, 2, 3, 4
	• Assignment Production	2	1, 2, 3, 4
<b>6</b>	• Online multimedia presentation and/or research	1.5	1, 2, 3, 4
	• Discussion Forum participation	1.5	1, 2, 3, 4
	• Assignment Production	2	1, 2, 3, 4
<b>7</b>	• Online multimedia presentation and/or research	1.5	1, 2, 3, 4
	• Discussion Forum participation	1.5	1, 2, 3, 4

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	<ul style="list-style-type: none"> <li>• Assignment Production</li> </ul>	2	1, 2, 3, 4
<b>8</b>	<ul style="list-style-type: none"> <li>• Online multimedia presentation and/or research</li> </ul>	1.5	1, 2, 3, 4
	<ul style="list-style-type: none"> <li>• Discussion Forum participation</li> </ul>	1.5	1, 2, 3, 4
	<ul style="list-style-type: none"> <li>• Assignment Production</li> </ul>	2	1, 2, 3, 4
<b>9</b>	<ul style="list-style-type: none"> <li>• Online multimedia presentation and/or research</li> </ul>	1.5	1, 2, 3, 4
	<ul style="list-style-type: none"> <li>• Discussion Forum participation</li> </ul>	1.5	1, 2, 3, 4
	<ul style="list-style-type: none"> <li>• Assignment Production</li> </ul>	2	1, 2, 3, 4
<b>10</b>	<ul style="list-style-type: none"> <li>• Online multimedia presentation and/or research</li> </ul>	1.5	1, 2, 3, 4
	<ul style="list-style-type: none"> <li>• Discussion Forum participation</li> </ul>	1.5	1, 2, 3, 4
	<ul style="list-style-type: none"> <li>• Assignment Production</li> </ul>	2	1, 2, 3, 4
<b>11</b>	<ul style="list-style-type: none"> <li>• Online multimedia presentation and/or research</li> </ul>	1.5	1, 2, 3, 4
	<ul style="list-style-type: none"> <li>• Discussion Forum participation</li> </ul>	1.5	1, 2, 3, 4
	<ul style="list-style-type: none"> <li>• Assignment Production</li> </ul>	2	1, 2, 3, 4
<b>12</b>	<ul style="list-style-type: none"> <li>• Online multimedia presentation and/or research</li> </ul>	1.5	1, 2, 3, 4
	<ul style="list-style-type: none"> <li>• Discussion Forum participation</li> </ul>	1.5	1, 2, 3, 4
	<ul style="list-style-type: none"> <li>• Assignment Production</li> </ul>	2	1, 2, 3, 4
<b>13</b>	<ul style="list-style-type: none"> <li>• Online multimedia presentation and/or research</li> </ul>	1.5	1, 2, 3, 4
	<ul style="list-style-type: none"> <li>• Discussion Forum participation</li> </ul>	1.5	1, 2, 3, 4
	<ul style="list-style-type: none"> <li>• Assignment Production</li> </ul>	2	1, 2, 3, 4
<b>14</b>	<ul style="list-style-type: none"> <li>• Online multimedia presentation and/or research</li> </ul>	1.5	1, 2, 3, 4
	<ul style="list-style-type: none"> <li>• Discussion Forum participation</li> </ul>	1.5	1, 2, 3, 4
	<ul style="list-style-type: none"> <li>• Assignment Production</li> </ul>	2	1, 2, 3, 4
<b>15</b>	<ul style="list-style-type: none"> <li>• Summative discussion and final review / Looking forward</li> </ul>	3	1, 2, 3, 4
<b>Total</b>		<b>73</b>	