

CREATIVE ARTS AND TECHNOLOGY - GAME DEVELOPMENT AND DESIGN CONCENTRATION (B.A.)

For details about this program, including program description, admission requirements, and contact information, click here (<https://www.montclair.edu/academics/programs/ba-creative-arts-technology/>).

Unless otherwise noted, 120 credits of coursework is required for a baccalaureate degree with a minimum 2.0 overall GPA, and a minimum 2.0 major GPA.

Degree Requirements Overview

Code	Title	Credits
	New Student Seminar	3
	SEEDS General Education Requirements	30-33
	Major Requirements	71
	Free Electives	16-13
	Total Credits	120

Major Requirements

Code	Title	Credits
Major Core		
CAT 121	CAT Foundation Studio	4
CAT 380	Internship I	3
CAT 420	Capstone Project I	4
Concentration Requirements		
CAT 108	Introduction to Game Design	3
CAT 150	History and Culture of Games	3
CAT 236	Visual Design for Games	3
CAT 237	Group Game Project I	4
CAT 238	Game Programming I	3
CAT 253	Digital Game Design	3
CAT 264	Computer Imaging	3
CAT 274	Game Programming 2	3
CAT 308	Group Game Project II	4
CAT 369	Game Theory Analysis	3
CAT 408	Pre-Capstone: Game Development	4
Electives		
	Complete 24 credits from the list below.	24
	Total Credits	71

Electives

Code	Title	Credits
CAT 107	Introduction to Music Technology	3
CAT 117	Process Interaction: An Introduction	3
CAT 120	Drawing I	3
CAT 130	Introduction to Data Visualization	3
CAT 134	Drawing For 2-D Animation	3
CAT 215	Level Design	3

CAT 247	Design Thinking and Practice	3
CAT 261	Interaction And Interface: Introduction To Physical Computing	3
CAT 270	Web Design I	3
CAT 286	Sound Design I: Audio for Video I	3
CAT 327	Game Programming Studio	3
CAT 328	Artificial Intelligence for Games	3
CAT 360	Selected Topics in Technology	3
CAT 361	3D Modeling	3
CAT 364	Motion Capture with Motionbuilder	3
CAT 372	3D ANIMATION	3
CAT 430	Internship II	3

New Student Seminar

Code	Title	Credits
FYS 100	First Year Seminar	3
Total Credits		3

SEEDS General Education Requirements

Click here for a listing of courses that fulfill the SEEDS requirements. (<http://catalog.montclair.edu/programs/seeds-general-education-requirements/>)

Code	Title	Credits
Foundations		
	<i>Effective Writing I</i>	
	Complete one Effective Writing I course.	3
	<i>Effective Writing II</i>	
	Complete one Effective Writing II course.	3
	<i>Interactive Communication</i>	
	Complete one Interactive Communication course.	3
	<i>Quantitative Reasoning</i>	
	Complete one Quantitative Reasoning course.	3
	<i>Political and Civic Life</i>	
	Complete one Political and Civic Life course.	3
	<i>World Languages</i>	
	Complete two sequential classes in one World Language when starting at the Beginner I or Beginner II level. Complete one class when starting at the Intermediate/Advanced Level.	3-6
Exploration		
	Complete one course from four different Exploration categories.	12
	<i>Analyzing Cultures and Societies</i>	
	<i>Creative Expression</i>	
	<i>Ethical Inquiry</i>	
	<i>Historical Thinking</i>	
	<i>Literary and Artistic Analysis</i>	
	<i>Scientific Reasoning</i>	
Total Credits		30-33

Recommended Roadmap to Program of Study Completion

This recommended degree plan is provided as an outline for students to follow in order to complete their program of study requirements within **four years** and 120 credits. This plan is a recommendation and must be used in consultation with their academic advisor. Important note: Students should be aware this plan assumes no pre-requisite coursework is required. If pre-requisite coursework is needed, students may have additional requirements to fulfill which do not appear on the plan.

First Year

Fall	Credits Spring	Credits
SEEDS: Effective Writing 1 (WRT 105 recommended)	4 SEEDS: Effective Writing 2 (WRT 109 recommended)	3
FYS 100	3 MTH 131 (Fulfills SEEDS: Quantitative Reasoning)	3
CAT 108 (fulfills SEEDS: Exploration 1 - Creative Expression)	3 CAT 253	3
CAT 121	4 CAT 150 (Fulfills SEEDS: Exploration 2 - Literary and Artistic Analysis)	3
	Major Elective	3
	14	15

Second Year

Fall	Credits Spring	Credits
CAT 238	3 CAT 274	3
CAT 264	3 CAT 369	3
CAT 236	3 SEEDS: World Language 2 or Free Elective	3
SEEDS: World Language 1	3 Major Elective	3
Major Elective	3 Major Elective	3
	15	15

Third Year

Fall	Credits Spring	Credits
CAT 237	4 CAT 308	4
SEEDS: Exploration 3	3 Major Elective	3
Major Elective	3 SEEDS: Exploration 4	3
Free Elective	3 Free Elective	3
SEEDS: Interactive Communication	3 SEEDS: Political and Civic Life	3
	16	16

Fourth Year

Fall	Credits Spring	Credits
CAT 408	4 CAT 420	4
CAT 380	3 Major Elective	3
Major Elective	3 Free Elective	3
Free Elective	3 Free Elective	3
Free Elective	3	
	16	13

Total Credits 120