

INFORMATICS (B.S.) - BLOOMFIELD COLLEGE

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.

First Year

Fall	Credits	Spring	Credits
WRT 105A (Fulfills SEEDS: Effective Writing I)		4 WRT 109 (Fulfills SEEDS: Effective Writing II)	3
FYS 100		3 PSY 100 (Fulfills SEEDS: Exploration 2 - Analyzing Cultures and Societies)	3
CMP 100 (Fulfills SEEDS: Exploration 1 - Scientific Reasoning)		3 CMP 108	3
MTH 161		4 MTH 221C (Fulfills SEEDS: Quantitative Reasoning)	4
		Free Elective	3
		14	16

Second Year

Fall	Credits	Spring	Credits
CMP 126A		3 CMP 226B	3
PSY 224		3-4 PSY 317	4
MTH 200		4 MTH 332A	3
SEEDS: Exploration 3		3 World Language 2 or Free Elective	3
World Language 1		3 Free Elective	3
		16-17	16

Third Year

Fall	Credits
CMP 228A	3
PHIL 281 (Fulfills SEEDS: Exploration 4 - Ethical Inquiry)	3
6	

Total Credits 68-69

Degree Requirements Overview

Code	Title	Credits
	New Student Seminar	1
	SEEDS General Education Requirements	31-33
	Major Requirements	48-49
	Free Electives	40-37
Total Credits		120

Program Requirements

Code	Title	Credits
Required Courses		
BUS 200	Introduction to Management	3

CMP 126A	Programming I	3
CMP 226B	Programming II	3
CMP 228A	Data Structures	3
CMP 235	Web Programming	3-4
CMP 300A	Systems Analysis and Design	3
CMP 322B	Introduction to Operating Systems	3
CMP 330B	Database Management	3
CMP 342	Management Information Systems	3
CMP 460	Applied Systems Development Project	3
NTW 101	Data Representation and Digital Logic	3
NTW 115	Introduction to Computer Networks	3
Complete one of the following:		3
MTH 221C	Calculus I	
MTH 332A	Discrete Mathematics	
Complete three of the following:		9
BUS 341	Project Management	
CMP 200/300/400		
CAT 242 Flex for Web & Games		
CAT 328	Artificial Intelligence for Games	
NTW 100/200/300/400		
Total Credits		48-49

New Student Seminar

Code	Title	Credits
Students in the Adult Learner program must take GNED 100.		
Complete one course from the following. Some courses may be restricted by major. Consult with an academic advisor.		1
ADVS 198	Pathways to Success	
CHEM 190	Freshman Seminar in Chemistry	
FYS 100	First Year Seminar	
GNED 100	Adult Academic Success Seminar	
GNED 199	New Student Seminar	
HPEM 199	Freshman Seminar in Health and Physical Education	
IDS 155	Pathways to Adult Learning	
JUST 199	New Student Seminar	
MATH 102	New Student Experience for Mathematical Sciences	
MUGN 199	Freshman Seminar for Music Majors	
NURS 199	Introduction to Nursing	
POLS 199	Freshman Seminar in Political Science and Law	

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 Degree Completion

This recommended degree plan is provided as an outline for students to follow in order to complete their degree 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.