

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.

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