

Western Connecticut State University Degree Works

Student		College		Hold	
ID		School		Athletics	
Classification		Degree	BA Math, Computer Sci Option	Housing Status	
Advisor		Major		Full-Time/Part-Time	
Overall GPA		Concentration		Catalog Term	FALL 2017
		Minor		FERPA Indicator	

Legend

<input checked="" type="checkbox"/> Complete	<input type="checkbox"/> Complete except for classes in-progress	(TR) Transfer Class
<input type="checkbox"/> Not Complete	<input type="checkbox"/> See Advisor - Nearly Complete	@ Any course number
IP In-Progress Course		

BA in Mathematics/Computer Sci Overview - 120 CR

Unmet conditions for this set of requirements: 120 credits are required.

- Minimum credits at WCSU A minimum of 30 credits must be taken at WCSU.
- A minimum cumulative GPA of 2.0 is required When your first term is graded, your cumulative GPA will be calculated. If your cumulative GPA falls below 2.0 it is important to see an advisor to make plans for raising your GPA.
- Foreign Language Requirement See **Foreign Language Requirement** section
- General Education Competency Requirements See **General Education Competency Requirements** section
- General Education Course Requirements See **General Education Course Req. Including Cognates** section
- Major Requirements See **Major in Mathematics** section
- General Electives See **General Electives** section

Foreign Language Requirement

- Foreign Language Requirement Complete a foreign language at an elementary II level or above. Students who have completed three years of language in high school with at least a 'C' average have satisfied this requirement. Consult your advisor.

General Education Competency Requirements

Unmet conditions for this set of requirements: Students must complete each of the competencies listed below. In addition, students must complete 3 of the competencies a second time excluding First Year (FY) and WRT 101 (WI).

- General Education Competencies
- Creative Process (CP) 1 to 2 Classes in @ @ ATTRIBUTE = CP
- Critical Thinking (CT) 1 to 2 Classes in @ @ ATTRIBUTE = CT

<input type="checkbox"/>	Oral Communication (OC)	1 to 2 Classes
<input type="checkbox"/>	Health and Wellness (HW)	1 to 2 Classes
<input type="checkbox"/>	Scientific Inquiry (SI)	1 to 2 Classes
<input type="checkbox"/>	Intercultural Competence (IC)	1 to 2 Classes
<input type="checkbox"/>	Information Literacy (IL)	1 to 2 Classes
<input type="checkbox"/>	First Year Experience (FY)	1 Class
<input type="checkbox"/>	Culminating Experience (CE)	1 to 2 Classes
<input type="checkbox"/>	Writing Course (WRT 101)	WRT 101
<input type="checkbox"/>	Writing Intensive II (W2)	1 to 2 Classes
<input type="checkbox"/>	Writing Intensive III (W3)	1 to 2 Classes
<input type="checkbox"/>	Quantative Reasoning (QR)	1 to 2 Classes

General Education Course Req. Including Cognates

Unmet conditions for this set of requirements: 40 credits are required.

<input type="checkbox"/>	WRITING COURSE (3 S.H.)	WRT 101
<input type="checkbox"/>	MATHEMATICS - CS COGNATE REQUIREMENTS (8 S.H.)	
<input type="checkbox"/>	Lab Science Sequence	Choose from 1 of the following:
<input type="checkbox"/>	General Physics (Calculus) I & II	PHY 110* and 111*
<input type="checkbox"/>	General Chemistry I & II	CHE 110 and 111*
<input type="checkbox"/>	General Biology I & II	BIO 103* and 104*
<input type="checkbox"/>	General Physics (Non-Calculus) I & II	PHY 120* and 121*
<input type="checkbox"/>	29 CREDITS IN CLASSES OUTSIDE MAJOR	

Major in Mathematics

Unmet conditions for this set of requirements: 45 credits are required.

<input type="checkbox"/>	Minimum 2.0 major GPA	
<input type="checkbox"/>	Minimum credits at WCSU	A minimum of 23 credits must be taken at WCSU.
<input type="checkbox"/>	MATHEMATICS MAJOR CORE	
<input type="checkbox"/>	Mathematics Seminar I	MAT 150*
<input type="checkbox"/>	Mathematics Seminar II	MAT 151
<input type="checkbox"/>	Calculus II (C or better)	MAT 182*
<input type="checkbox"/>	Proofs (C or better)	MAT 207*
<input type="checkbox"/>	Introduction to Linear Algebra (C or better)	MAT 272*

<input type="checkbox"/>	Calculus III (C or better)	MAT 281*
<input type="checkbox"/>	Algebraic Structures (C or better)	MAT 375*
<input type="checkbox"/>	Senior Seminar Experience	MAT 453
<input type="checkbox"/>	COMPUTER SCIENCE OPTION	
<input type="checkbox"/>	Introductory Discrete Mathematics (C or better)	MAT 165*
<input type="checkbox"/>	Introductory Statistics or Differential Equations	MAT 222* or 282*
<input type="checkbox"/>	Intro to Applied Mathematics or Theory of Computation	MAT 332* or 359*
<input type="checkbox"/>	Computer Science I: Language	CS 170*
<input type="checkbox"/>	Data Modeling and Database Design	CS 205
<input type="checkbox"/>	Design and Analysis of Algorithms	CS 315*
<input type="checkbox"/>	CS Engineering Elective	CS 305* or 350* or 360*
	Free Electives Requirement	
<input type="checkbox"/>	Students must take CS 140 or CS 143 as part of their free electives for this program. Course will appear as part of the General Electives portion of the audit.	

General Electives

<input type="checkbox"/>	MAT 181 or MAT 170 and MAT 171	Choose from 1 of the following:
<input type="checkbox"/>	Calculus I	MAT 181*
<input type="checkbox"/>	Calculus with pre-calculus	MAT 170* and 171*
<input type="checkbox"/>	Intro to Prog or Visual Basic	CS 140* or 143
<input type="checkbox"/>	General Electives 24-28 Credits	

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