



Program of Study: Associate of Science in Mathematics

Career Pathway: Mathematics

Secondary Partner:

Program Name:

CIP:

Program ID:

Post-secondary Partner: Trinidad State College

Program Name: Associate of Science in Mathematics

CIP: 27.0101

Program ID: AS_AS DMAT

Secondary Program Description:

This program is specifically designed to complete the lower-division requirements for a Bachelor of Science (BS) degree, providing you with a robust foundation that opens doors to a multitude of career opportunities.

Career and Technical Courses

Possibilities of careers, and demand relating to this Pathway

State Graduation Requirements: www.cde.state.co.us/postsecondary/graduationguidelines

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| High School/Secondary | <ul style="list-style-type: none"> ENG 1021 English Composition I: GT-CO1 CE MAT 2410 Calculus I: GT-MA1 CE CSC 1060 Computer Science I: (Language) CE ANT 1001 Cultural Anthropology Lab: GT-SS3, or ECO 2001 Principles of Macroeconomics: GT-SS1, or ECO 2002 Principles of Microeconomics: GT-SS1, or PSC 2020 Introduction to Political Science: GT-SS1, or SOC 1001 Introduction to Sociology: GT-SS3, or PSC 1011 American Government: GT-SS1, or GEO 1005 World Regional Geography: GT-SS2 ENG 1022 English Composition II: GT-CO1 CE MAT 2420 Calculus II: GT-MA1 CE ART 1110 Art Appreciation: GT-AH1, or HUM 1021 Humanities: Early Civilization: GT-AH2, or MUS 1020 Music Appreciation: GT-AH1, or PHI 1012 Ethics: GT-AH3, or PHI 1013 Logic: GT-AH3, or THE 1005 Theatre Appreciation: GT-AH1 CE COM 1150 Public Speaking, or COM 1250 Interpersonal Communication: GT-SS3 CE Calculus III: GT-MA1, or Calculus III w/Engineering Applications: GT-MA1 CE PHY 2111 Physics: Calculus-Based I with Lab: GT-SC1 CE ART 1111 Art History Ancient to Medieval: GT-AH1, or HUM 1022 Humanities: Medieval-Modern: GT-AH2, or HUM 1023 Humanities: Modern World: GT-AH2, or MUS 1025 History of Jazz: GT-AH1, or PHI 1014 Comparative Religions: GT-AH3, or THE 2012 Development of Theatre Restoration to Modern: GT-AH1 CE COM 1250 Interpersonal Communication: GT-SS3, or CRJ 1010 Introduction to Criminal Justice: GT-SS3, or PSY 1001 General Psychology I: GT-SS3, or PSY 1002 General Psychology II: GT-SS3, or SOC 1001 Introduction to Sociology I: GT-SS3, or SOC 1002 Introductory to Sociology II: GT-SS3 CE HIS 1310 Western Civilization: Antiquity-1650: GT-HI1, or HIS 1320 Western Civilization: 1650-Present: GT-HI1, or HIS 1110 The World: Antiquity-1500: GT-HI1, or HIS 1120 The World: 1500-Present: GT-HI1, or HIS 1210 US History to Reconstruction: GT-HI1, or HIS 1220 US History since the Civil War: GT-HI1 CE PHY 2112 Physics: Calculus-Based II with Lab: GT-SC1 CE ART 1112 Art History Renaissance to 1900: GT-AH1, or LIT 2012 American Literature After Civil War: GT-AH2, or MUS 1025 History of Jazz: GT-AH1, or PHI 1011 Intro to Philosophy: GT-AH3, or PHI 1013 Logic: GT-AH3, or THE 1005 Theatre Appreciation: GT-AH1 CE MAT 1440 Pre-Calculus: GT-MA1, or BIO 1111 General College Biology I with Lab: GT-SC1, or BIO 1112 General College Biology II with Lab: GT-SC1, or CHE 1011 Introduction to Chemistry I with Lab: GT-SC1, or CHE 1012 Introduction to Chemistry II with Lab: GT-SC1, or CHE 1111 General College Chemistry I with Lab: GT-SC1 CE |
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Possibilities of Careers:

Statisticians, Natural Sciences Managers, Middle School Teachers, Mathematicians, Statistical Assistants, Secondary School Teachers, Mathematical Science Teachers

Employment Demand and Wage Data:

Statisticians' median income \$47 per hour, ten-year job growth 32%. Natural Sciences Managers median income \$69 per hour, ten-year job growth 18%. Middle School Teachers median income \$30 per hour, ten-year job growth 14%. Mathematicians' median income \$57 per hour, ten-year job growth 25%. Statistical Assistants median income \$25 per hour, ten-year job growth 7%. Secondary School Teachers median income \$31 per hour, ten-year job growth 16%. Mathematical Science Teachers median income \$35 per hour, ten-year job growth 22%.

Related Industry Certifications/Credential(s) offered through program:	Work-based Learning offered through program: Career Research Cooperative Education Job Shadowing
Advanced Credit Options Key: Notate above which course has an articulation agreement or concurrent enrollment. AA – Course is approved for Articulation Agreement CE – Course is offered as Concurrent Enrollment	CTSO organization(s): <input type="checkbox"/> DECA <input type="checkbox"/> FBLA <input type="checkbox"/> FCCLA <input type="checkbox"/> FFA <input type="checkbox"/> CCSA <input type="checkbox"/> HOSA <input type="checkbox"/> SkillsUSA <input type="checkbox"/> TSA <input type="checkbox"/> SC ²

POSTSECONDARY CREDENTIALS				
Postsecondary	Certificate(s) offered through program:	Associate Degree(s) offered through program:	Bachelor's Degree(s) program aligns to:	Advanced Degree(s) program aligns to:
		Mathematics AS	Mathematics BS	Mathematics MS, PhD
	Postsecondary Program Description: This program is specifically designed to complete the lower-division requirements for a Bachelor of Science (BS) degree, providing you with a robust foundation that opens doors to a multitude of career opportunities.			
	Program Requirements for Entry: http://www.trinidadstate.edu/admissions			
CTE Courses				

	<p>Semester 1</p> <ul style="list-style-type: none"> • ENG 1021 English Composition I: GT-CO1 • MAT 2410 Calculus I: GT-MA1 • CSC 1060 Computer Science I: (Language) • ANT 1001 Cultural Anthropology Lab: GT-SS3, or ECO 2001 Principles of Macroeconomics: GT-SS1, or ECO 2002 Principles of Microeconomics: GT-SS1, or PSC 2020 Introduction to Political Science: GT-SS1, or SOC 1001 Introduction to Sociology: GT-SS3, or PSC 1011 American Government: GT-SS1, or GEO 1005 World Regional Geography: GT-SS2 <p>Semester 2</p> <ul style="list-style-type: none"> • ENG 1022 English Composition II: GT-CO1 • MAT 2420 Calculus II: GT-MA1 • ART 1110 Art Appreciation: GT-AH1, or HUM 1021 Humanities: Early Civilization: GT-AH2, or MUS 1020 Music Appreciation: GT-AH1, or PHI 1012 Ethics: GT-AH3, or PHI 1013 Logic: GT-AH3, or THE 1005 Theatre Appreciation: GT-AH1 • COM 1150 Public Speaking, or COM 1250 Interpersonal Communication: GT-SS3 	<p>Semester 3</p> <ul style="list-style-type: none"> • Calculus III: GT-MA1, or Calculus III w/Engineering Applications: GT-MA1 • PHY 2111 Physics: Calculus-Based I with Lab: GT-SC1 • ART 1111 Art History Ancient to Medieval: GT-AH1, or HUM 1022 Humanities: Medieval-Modern: GT-AH2, or HUM 1023 Humanities: Modern World: GT-AH2, or MUS 1025 History of Jazz: GT-AH1, or PHI 1014 Comparative Religions: GT-AH3, or THE 2012 Development of Theatre Restoration to Modern: GT-AH1 • COM 1250 Interpersonal Communication: GT-SS3, or CRJ 1010 Introduction to Criminal Justice: GT-SS3, or PSY 1001 General Psychology I: GT-SS3, or PSY 1002 General Psychology II: GT-SS3, or SOC 1001 Introduction to Sociology I : GT-SS3, or SOC 1002 Introductory to Sociology II: GT-SS3 <p>Semester 4</p> <ul style="list-style-type: none"> • HIS 1310 Western Civilization: Antiquity-1650: GT-HI1, or HIS 1320 Western Civilization: 1650-Present: GT-HI1, or HIS 1110 The World: Antiquity-1500: GT-HI1, or HIS 1120 The World: 1500-Present: GT-HI1, or HIS 1210 US History to Reconstruction: GT- HI1, or HIS 1220 US History since the Civil War:GT-HI1 • PHY 2112 Physics: Calculus-Based II with Lab: GT-SC1 • ART 1112 Art History Renaissance to 1900: GT-AH1, or LIT 2012 American Literature After Civil War: GT-AH2, or MUS 1025 History of Jazz: GT-AH1, or PHI 1011 Intro to Philosophy: GT-AH3, or PHI 1013 Logic: GT-AH3, or THE 1005 Theatre Appreciation: GT-AH1 • MAT 1440 Pre-Calculus: GT-MA1, or BIO 1111 General College Biology I with Lab: GT-SC1, or BIO 1112 General College Biology II with Lab: GT-SC1, or CHE 1011 Introduction to Chemistry I with Lab: GT-SC1, or CHE 1012 Introduction to Chemistry II with Lab: GT-SC1, or CHE 1111 General College Chemistry I with Lab: GT-SC1
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District/College Review

Secondary Partner

Print Name: Title: Signature: Date:

Postsecondary Partner

Print Name: Title: Signature: Date: