Red Rocks Community College

2023-2024 Degree or Certificate Map: Full-Time

Community: STEM
Degree or Certificate: Degree with Designation AS Mathematics

First Semester:

GT Content	Course Number	Title	Credits	Prerequisite
MA1	**MAT 2410**	**Calculus I**	5	**MAT 1440 or MAT 1340 and MAT 1420 (C or better)**
CO1	**ENG 1021**	**English Composition I**	3	--
AH 1, 2, or 3	**ART 1110**[1]	**Art Appreciation**	3	
	HUM 1015	**World Mythology**	3	
	LIT 1015	**Introduction to Literature**	3	
	LIT 2005	**Race, Ethnicity and Culture**	3	
	PHI 1012	**Ethics**	3	
	PHI 2018	**Environmental Ethics**	3	
SS 1, 2, or 3	**ECO 2001**[2]	**Principles of Macroeconomics**	3	
	PSC 1011	**American Government**	3	
	PSY 1001	**General Psychology I**	3	
	ANT 1001	**Cultural Anthropology**	3	
	GEO 1005	**World Regional Geography**	3	
	SOC 1001	**Introduction to Sociology I**	3	
			14	

Second Semester:

GT Content	Course Number	Title	Credits	Prerequisite
MA1	**MAT 2420**	**Calculus II**	5	**MAT 2410 (C or better)**
CO2	**ENG 1022**	**English Composition II**	3	**ENG 1021 (C or better)**
H1	**HIS 1310**[3]	**Western Civ. – Antiquity -1650**	3	
	HIS 1320	**Western Civ. – 1650 – Present**	3	
	HIS 1110	**The World – Antiquity -1500**	3	
	HIS 1120	**The World – 1500 – Present**	3	
	HIS 2005	**Women in World History**	3	
	HIS 2015	**20th Century world History**	3	
Electives	**CSC 1019**	**Introduction to Programming**	3	--
			14	

[1] Other options include: ART 1111, 1112, 1113; HUM 1003, 1021, 1022, 1023; LIT 2002, 2011, 2012, 2021, 2022, 2046, 2055, 2068; PHI 1011, 1013, 1014, 1015, 1016, 2005, 2014, 2020.
[2] Other options include: ANT 1003, 1208, 2115, 2125, 2550; ECO 1001, 2002; GEO 1006; PSC 1025, 1050, 2005, 2020, 2025; PSY 1002, 2105, 2107, 2221, 2222, 2331, 2333, 2440, 2441, 2552, 2771; SOC 1002, 2005, 2007, 2015, 2016, 2018, 2020, 2031, 2037.
[3] Other options include: HIS 1210, 1220, 2105, 2110, 2115, 2130, 2135, 2145, 2200.

Third Semester:

GT Content	Course Number	Title	Credits	Prerequisite
MA1	MAT 2431	Calculus III w/Engineering Applications	5	MAT 2420 (C or better)
COM	COM 1250 COM 1150	Interpersonal Communication Public Speaking	3	
SC1	PHY 2111	Calculus-Based Physics I	5	MAT 2410 (C or better)
AH 1, 2, or 3	ART 1110[4] HUM 1015 LIT 1015 LIT 2005 PHI 1012 PHI 2018	Art Appreciation World Mythology Introduction to Literature Race, Ethnicity and Culture Ethics Environmental Ethics	3 3 3 3 3 3	
		Total Credits	16	

Fourth Semester:

GT content	Course Number	Title	Credits	Prerequisite
SC1	PHY 2112	Calculus-Based Physics II	5	PHY 2111 (C or better)
SS 1, 2, or 3	ECO 2002[5] PSC 2005 PSY 2552 ANT 1001 GEO 1006 SOC 2018	Principles of Microeconomics International Relations Abnormal Psychology Cultural Anthropology Human Geography Sociology of Diversity	3 3 3 3 3 3	
AH 1, 2, or 3	ART 1110[6] HUM 1015 LIT 1015 LIT 2005 PHI 1013 PHI 1014	Art Appreciation World Mythology Introduction to Literature Race, Ethnicity, and Culture Logic Comparative Religions	3 3 3 3 3 3	
Required	CSC 1060	Computer Science I	4	CSC 1019 (C or better)
Elective	MAT 2561 MAT 2500 MAT 2540 GEY 1016 GEY 1018 AST 1001	Differential Equations Intro to Proof and Reasoning Linear Algebra The Geology of Minerals and Gems Rock and Mineral Identifiction Colorado Night Sky I	4 3 3 1 1 1	MAT 2431 (C or better) MAT 2420 (C or better) MAT 2420 (C or better)
		Total Credits	16-18	

Summer Semester (recommended):

MAT 2561 – Differential Equations (4 credits)

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[4] Other options include: ART 1111, 1112, 1113; HUM 1003, 1021, 1022, 1023; LIT 2002, 2011, 2012, 2021, 2022, 2046, 2055, 2068; PHI 1011, 1013, 1014, 1015, 1016, 2005, 2014, 2020.
[5] Other options include: ANT 1003, 1208, 2115, 2125, 2550; ECO 1001, 2001; GEO 1005; PSC 1011, 1025, 1050, 2020, 2025; PSY 1001, 1002, 2105, 2107, 2221, 2222, 2331, 2333, 2440, 2441, 2771; SOC 1001, 1002, 2005, 2007, 2015, 2016, 2020, 2031, 2037.
[6] Other options include: ART 1111, 1112, 1113; HUM 1003, 1021, 1022, 1023; LIT 2002, 2011, 2012, 2021, 2022, 2046, 2055, 2068; PHI 1011, 1012, 1015, 1016, 2005, 2014, 2018, 2020.