Washington Youth Academy

COURSE DESCRIPTIONS

Session 2022-01

December 15, 2021

State Course ID	CTE CIP Code	W.Y.A. Course ID	Title	Description	Cr.	Type B = CADR	Teacher
01992	N/A	ENG 241	English Proficiency Development	The English proficiency development course is designed to assist students in acquiring the skills necessary to pass state and national proficiency examinations. These skills are aligned with the Grade Level Standards in Reading and Writing for the State of Washington.	1.0	B	Sternod
11103	100202	CTE 455	Video Production Technology	The Video Production Technology course provides students with the technical knowledge and skills to produce television-related video programming and related operations. Students prepare and produce short programs. Includes instruction in camera operation and maintenance, audio, directing, and pre- and post-production techniques. Use of non-linear editing software, music editing and basic story production. *(Note: This course qualifies as a visual arts credit.)*	1.0	B	Glomstad
03210	N/A	SCI 165	Physical Science and Engineering with lab	This course is focused on the principles of physics, Earth and space science, and engineering. It is designed to be a hands-on, project-based class and will prepare students for upper-level science courses, and relevant science and engineering fields. The class will prepare students for the Washington Comprehensive Assessment of Science (WCAS) and meet the life science requirements for the Next Generation Science Standards.	1.0	B	Lundberg

State Course ID	CTE CIP Code	W.Y.A. Course ID	Title	Description	Cr.	Type B = CADR	Teacher
04305	N/A	SST 330	Social Studies	In this course, students study and compare the different economic and governmental systems of the world, as well as take an in-depth look at how the U.S. economy and government works. Some of the topics covered include the law of supply and demand; income inequality, unemployment and poverty; labor unions and specialization of labor, and different minority populations. Students will explore these topics through online research assignments, individual and group research, and traditional lessons. The course includes a Civics component. Students participate in a mock election, take the U.S. Citizenship Test, and register for selective service or to vote (if eligible).	1.0	B	Capps
19262	N/A	JLS 440	Personal Finance	This course emphasizes the fundamental skills one needs to be financially fit. Students learn how to make money work for them. Students complete the class with an individual financial plan for savings, investing, avoiding debt, understanding credit, budgeting, assessing insurance needs, and general money management skills. *(Note: this course does not qualify as a math credit.)*	0.5		Evans
22151	N/A	JLS 235	Career Exploration	This course helps students identify and evaluate personal goals, priorities, aptitudes, and interests with the goal of helping them make informed decisions about their careers. The course exposes students to various sources of information on career and training options and assists them in developing job search and employability skills.	0.5		Evans

State Course ID	CTE CIP Code	W.Y.A. Course ID	Title	Description	Cr.	Type B = CADR	Teacher
22104	N/A	CTE 421	Community Service	Provides students with the opportunity to volunteer their time, energy, and talents to serve a community project or organizations. Students use volunteer experiences to learn how to solve problems, make decisions, and communicate effectively.	0.5		Lundberg
08057	N/A	HED 425	Health and Life Management	The Health and Life Management course focuses on consumer education and personal health topics (such as nutrition, stress management, drug/alcohol abuse prevention, and disease prevention). Course objectives include helping students develop decision-making, communication, interpersonal, and coping skills and strategies.	0.5		Neyman
08005	N/A	FIT 210	Personal Fitness	This class introduces students to the components of fitness and conditioning, principles of weight training, and personal goal setting. Students engage in conditioning activities that develop muscular strength, flexibility, and cardiovascular fitness. Personal fitness levels are regularly assessed by means of the BMI (Body Mass Index) and President's Personal Fitness Test (PPFT).	1.0		Neyman

Note: Cadets are enrolled in up to 1.0 credit of math per WYA session.

State Course ID	CTE CIP Code	W.Y.A. Course ID	Title	Description	Cr.	Type B = CADR	Teacher
02051	N/A	MAT 131	Pre-Algebra Semester 1	The Pre-Algebra course increases students' foundational mathematics skills and prepares them for Algebra I by covering a variety of topics, such as properties of rational numbers (i.e., number theory), ratio, proportion, estimation, exponents and radicals, the rectangular coordinate system, sets and logic, formulas, and solving first-degree equations and inequalities.	0.5		M. Zmolek
02051	N/A	MAT 132	Pre-Algebra Semester 2	The Pre-Algebra course increases students' foundational mathematics skills and prepares them for Algebra I by covering a variety of topics, such as properties of rational numbers (i.e., number theory), ratio, proportion, estimation, exponents and radicals, the rectangular coordinate system, sets and logic, formulas, and solving first-degree equations and inequalities.	0.5		M. Zmolek
02052	N/A	MAT 230	Algebra 1 Semester 1	The Algebra I course includes the study of properties and operations of the real number system; evaluating rational algebraic expressions; solving and graphing first-degree equations and inequalities; translating word problems into equations; operations with and factoring of polynomials; and solving simple quadratic equations.	0.5		M. Zmolek
02052	N/A	MAT 231	Algebra 1 Semester 2	The Algebra I course includes the study of properties and operations of the real number system; evaluating rational algebraic expressions; solving and graphing first-degree equations and inequalities; translating word problems into equations; operations with and factoring of polynomials; and solving simple quadratic equations.	0.5		M. Zmolek

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State Course ID	CTE CIP Code	W.Y.A. Course ID	Title	Description	Cr.	Type B = CADR	Teacher
02056	N/A	MAT 240	Algebra 2 Semester 1	The Algebra II course topics may include field properties and theorems; set theory; operations with rational and irrational expressions; factoring of rational expressions; in-depth study of linear equations and inequalities; quadratic equations; solving systems of linear and quadratic equations; graphing of constant, linear, and quadratic equations; properties of higher-degree equations; and operations with rational and irrational exponents.	0.5	(B)	M. Zmolek
02056	N/A	MAT 241	Algebra 2 Semester 2	The Algebra II course topics may include field properties and theorems; set theory; operations with rational and irrational expressions; factoring of rational expressions; in-depth study of linear equations and inequalities; quadratic equations; solving systems of linear and quadratic equations; graphing of constant, linear, and quadratic equations; properties of higher-degree equations; and operations with rational and irrational exponents.	0.5	(B)	M. Zmolek
02072	N/A	MAT 330	Geometry Semester 1	The Geometry course emphasizes an abstract, formal approach to the study of geometry, and typically includes topics such as properties of plane and solid figures; deductive methods of reasoning and use of logic; geometry as an axiomatic system including the study of postulates, theorems, and formal proofs; concepts of congruence, similarity, parallelism, perpendicularity, and proportion; and rules of angle measurement in triangles.	0.5	(B)	M. Zmolek

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State Course ID	CTE CIP Code	W.Y.A. Course ID	Title	Description	Cr.	Type B = CADR	Teacher
02072	N/A	MAT 331	Geometry Semester 2	The Geometry course emphasizes an abstract, formal approach to the study of geometry, and typically includes topics such as properties of plane and solid figures; deductive methods of reasoning and use of logic; geometry as an axiomatic system including the study of postulates, theorems, and formal proofs; concepts of congruence, similarity, parallelism, perpendicularity, and proportion; and rules of angle measurement in triangles.	0.5	(B)	M. Zmolek
02110	N/A	MAT 430	Pre-Calculus Semester 1	The Pre-Calculus course combines the study of Trigonometry, Elementary Functions, Analytic Geometry, and Mathematic Analysis topics as preparation for calculus. Topics typically include the study of complex numbers; polynomial, logarithmic, exponential, rational, right trigonometric, and circular functions, and their relations, inverses and graphs; trigonometric identities and equations; solutions of right and oblique triangles; vectors; the polar coordinate system; conic sections; Boolean algebra and symbolic logic; mathematical induction; matrix algebra; sequences and series; and limits and continuity.	0.5	(B)	M. Zmolek

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State Course ID	CTE CIP Code	W.Y.A. Course ID	Title	Description	Cr.	Type B = CADR	Teacher
02110	N/A	MAT 431	Pre-Calculus Semester 2	The Pre-Calculus course combines the study of Trigonometry, Elementary Functions, Analytic Geometry, and Mathematic Analysis topics as preparation for calculus. Topics typically include the study of complex numbers; polynomial, logarithmic, exponential, rational, right trigonometric, and circular functions, and their relations, inverses and graphs; trigonometric identities and equations; solutions of right and oblique triangles; vectors; the polar coordinate system; conic sections; Boolean algebra and symbolic logic; mathematical induction; matrix algebra; sequences and series; and limits and continuity.	0.5	(B)	M. Zmolek
02121	N/A	MAT 440	Calculus Semester 1	The calculus course includes the study of derivatives, differentiation, integration, the definite and indefinite integral, and applications of calculus. Typically, students have previously attained knowledge of pre-calculus topics (some combination of trigonometry, elementary functions, analytic geometry, and mathematic analysis).	0.5	(B)	M. Zmolek
02121	N/A	MAT 441	Calculus Semester 2	The calculus course includes the study of derivatives, differentiation, integration, the definite and indefinite integral, and applications of calculus. Typically, students have previously attained knowledge of pre-calculus topics (some combination of trigonometry, elementary functions, analytic geometry, and mathematic analysis).	0.5	(B)	M. Zmolek

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State Course ID	CTE CIP Code	W.Y.A. Course ID	Title	Description	Cr.	Type B = CADR	Teacher
02201	N/A	MAT 530	Probability and Statistics Semester 1 – Independent Study	The Probability and Statistics course introduces the study of likely events and the analysis, interpretation, and presentation of quantitative data. Course topics generally include basic probability and statistics: discrete probability theory, odds and probabilities, probability trees, populations and samples, frequency tables, measures of central tendency, and presentation of data (including graphs). Course topics may also include normal distribution and measures of variability.	0.5	(B)	M. Zmolek
02201	N/A	MAT 531	Probability and Statistics Semester 2 – Independent Study	The Probability and Statistics course introduces the study of likely events and the analysis, interpretation, and presentation of quantitative data. Course topics generally include basic probability and statistics: discrete probability theory, odds and probabilities, probability trees, populations and samples, frequency tables, measures of central tendency, and presentation of data (including graphs). Course topics may also include normal distribution and measures of variability.	0.5	(B)	M. Zmolek

ADDITIONAL INFORMATION

Washington Youth Academy classes are standards-based and approved by the Office of the Superintendent of Public Instruction (OSPI).

CEDARS District Code 34979: Washington Military Department
CEDARS School Code 5302: Washington Youth Academy

- The core classes align to Washington State standards:
  - English and Math courses are aligned to the common core standards.
  - Science is aligned both to Washington State standards and Next Generation Science Standards (NGSS).

- The Washington Youth Academy has received CTE course approvals from OSPI for the Career and Technical Education courses that carry a CIP code.

- The High School and Beyond Plan is a document that students work on throughout their high school experience. WYA awards a High School and Beyond Plan completed designation on the final grade report to senior-level students that meet a culminating standard on this graduation requirement and have otherwise met all requirements for graduation.

- ASVAB Test. All cadets take the Armed Services Vocational Aptitude Battery (ASVAB).

- Avant STAMP 4S. Bilingual students may elect to take the Avant STAMP 4S World Language competency assessment. Award of high school credits (up to four credits possible) and/or award of the seal of biliteracy are evaluated and transcripted at the student's next residential school.

For questions or further information about the course offerings,
please contact the Washington Youth Academy Academic Department
at (360) 473-2602

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Washington Youth Academy Courses
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State Course Code	W.Y.A. Course	Course Description	Teacher	Credits	CADR	CIP
04305	SST 330	Social Studies	C. Capps	1.0	(B)	
22151	JLS 235	Career Exploration	D. Evans	0.5		
19262	JLS 440	Personal Finance	D. Evans	0.5		
11103	CTE 455	Video Production Technology	C. Glomstad	1.0	(B)	100202
03210	SCI 165	Physical Science and Engineering with lab	J. Lundberg	1.0	(B)	
22104	CTE 421	Community Service	J. Lundberg	0.5		
08057	HED 425	Health and Life Management	M. Neyman	0.5		
08005	FIT 210	Personal Fitness	M. Neyman	1.0		
01992	ENG 241	English Proficiency Development	B. Sternod	1.0	(B)	

CADR = College Academic Distribution Requirements - (B) designates this course meets CADR.
CIP = Classification of Instructional Program, Career/Technical Education Course.

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State Course Code	W.Y.A. Course	Course Description	Teacher	Credits	CADR	CIP
02051	MAT 131	Pre-Algebra Semester 1	M. Zmolek	0.5		
02051	MAT 132	Pre-Algebra Semester 2	M. Zmolek	0.5		
02052	MAT 230	Algebra 1 Semester 1	M. Zmolek	0.5	(B)	
02052	MAT 231	Algebra 1 Semester 2	M. Zmolek	0.5	(B)	
02056	MAT 240	Algebra 2 Semester 1	M. Zmolek	0.5	(B)	
02056	MAT 241	Algebra 2 Semester 2	M. Zmolek	0.5	(B)	
02072	MAT 330	Geometry Semester 1	M. Zmolek	0.5	(B)	
02072	MAT 331	Geometry Semester 2	M. Zmolek	0.5	(B)	
02110	MAT 430	Pre-Calculus Semester 1	M. Zmolek	0.5	(B)	
02110	MAT 431	Pre-Calculus Semester 2	M. Zmolek	0.5	(B)	
02121	MAT 440	Calculus Semester 1	M. Zmolek	0.5	(B)	
02121	MAT 441	Calculus Semester 2	M. Zmolek	0.5	(B)	
02201	MAT 530	Probability and Statistics Semester 1 – Independent Study	M. Zmolek	0.5	(B)	
02201	MAT 531	Probability and Statistics Semester 2 – Independent Study	M. Zmolek	0.5	(B)	

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