

Lower Division Major Preparation Articulation Agreement: 2015-2016 Catalog

The following tables are the assessments of the courses between West Valley College and Cogswell Polytechnical College. This table will be used in assessing official transcripts from West Valley College for transfer credit at Cogswell Polytechnical College.

To be considered for transfer, a course must be successfully completed with a grade of C or better. All coursework in this table will be considered lower division level.

These courses fulfill the competency requirements of the Cogswell Polytechnical College course shown; however, these courses may not fulfill the credit requirements for your program. To obtain an undergraduate degree at Cogswell Polytechnical College students are required to complete the courses specified (or their approved equivalent) as listed in the College Catalog.

Courses may change or be discontinued at any time at either College. The courses listed below are approved as of January 27, 2016.

B.A. Digital Arts and Animation: 3D Animation Concentration

West Valley College			Cogswell Polytechnical College		
Course Code	Course Title	Sem. Credit	Course Code	Course Title	Sem. Units
ART031A	Beginning Drawing	3	DAA110	Sketching	3
ART033A	Two-Dimensional Design	3	DAA100	2D Design 1	3
ART033C	Color Design	3	DAA105	Color Theory	3
ART035A	Beginning Life Drawing	3	DAA115	Figure Drawing 1	3
ART062A	Basic Photography	3	DAA108	Introduction to Photography	3
DM/ISO10D	Advanced Digital Imaging	4	DAA106	Digital Imaging Concepts	3
DM/ISO22A or DM/ISO22B	Digital Video 1 Digital Video 2	4	DAA220	Video Editing	3
THEAR040A	Beginning Acting	3	DAA200	Acting	3

B.A. Digital Arts and Animation: 3D Modeling Concentration

West Valley College			Cogswell Polytechnical College		
Course Code	Course Title	Sem. Credit	Course Code	Course Title	Sem. Units
ART031A	Beginning Drawing	3	DAA110	Sketching	3
ART033A	Two-Dimensional Design	3	DAA100	2D Design 1	3
ART033C	Color Design	3	DAA105	Color Theory	3
ART035A	Beginning Life Drawing	3	DAA115	Figure Drawing 1	3
ART049A	Beginning Painting	3	DAA120	Traditional Painting	3
ART062A	Basic Photography	3	DAA108	Introduction to Photography	3
DM/ISO10D	Advanced Digital Imaging	4	DAA106	Digital Imaging Concepts	3
DM/ISO22A or DM/ISO22B	Digital Video 1 Digital Video 2	4	DAA220	Video Editing	3

B.A. Digital Arts and Animation: Entertainment Design Concentration

West Valley College			Cogswell Polytechnical College		
Course Code	Course Title	Sem. Credit	Course Code	Course Title	Sem. Units
ART031A	Beginning Drawing	3	DAA110	Sketching	3
ART033A	Two-Dimensional Design	3	DAA100	2D Design 1	3
ART033C	Color Design	3	DAA105	Color Theory	3
ART035A	Beginning Life Drawing	3	DAA115	Figure Drawing 1	3
ART035B	Intermediate Life Drawing	3	DAA210	Figure Drawing 2	3

ART049A	Beginning Painting	3	DAA120	Traditional Painting	3
DM/IS010D	Advanced Digital Imaging	4	DAA106	Digital Imaging Concepts	3
DM/IS022A	Digital Video 1	4	DAA220	Video Editing	3
or DM/IS022B	Digital Video 2				

B.S. Digital Arts Engineering

West Valley College			Cogswell Polytechnical College		
Course Code	Course Title	Sem. Credit	Course Code	Course Title	Sem. Units
ART031A	Beginning Drawing	3	DAA110	Sketching	3
ART033A	Two-Dimensional Design	3	DAA100	2D Design 1	3
ART033C	Color Design	3	DAA105	Color Theory	3
CIS004B	Computer Programming II (C++ Language)	4	SWE285	C++ Programming: Object Oriented Programming	4
CIS004B	Computer Programming II (Java)	4	SWE212	Java Programming	4

B.S. Digital Media Management

West Valley College			Cogswell Polytechnical College		
Course Code	Course Title	Sem. Credit	Course Code	Course Title	Sem. Units
BUS005 or CA005	Introduction to Project Management	3	DMM270	Project Management	3
BUS006	Negotiation Principles	3	DMM230	Business Development and Negotiation	3
BUS028	Business Law	3	DMM125	Cover Your Assets	3
BUS078	Business Communication	3	DMM120	Communication for Success	3

B.S. Digital Audio Technology: Audio and Music Production Concentration

West Valley College			Cogswell Polytechnical College		
Course Code	Course Title	Sem. Credit	Course Code	Course Title	Sem. Units
MUSIC003A	Music Theory Level 1	3	DAT102	Music Theory 1	3
MUSIC003B	Music Theory Level 2	4	DAT107	Music Theory 2	3
MUSIC004A	Music Theory Level 3	4	DAT202	Music Theory 3	3
MUSIC004B	Music Theory Level 4	4	DAT207	Music Theory 4	3
MUSIC063B	Advanced Music Production and Multi-Track Recording	3	DAT110	Desktop Audio Production	3
MUSIC065A	Recording Arts I	3	DAT220	Studio Production 1	3
MUSIC067A	Scoring for Film, TV, and Gaming: Foundations	3	DAT115	Desktop Production Fundamentals	3

B.S. Digital Audio Technology: Audio Software Development and Engineering Concentration

West Valley College			Cogswell Polytechnical College		
Course Code	Course Title	Sem. Credit	Course Code	Course Title	Sem. Units
MUSIC063B	Advanced Music Production and Multi-Track Recording	3	DAT110	Desktop Audio Production	3
MUSIC065A	Recording Arts I	3	DAT220	Studio Production 1	3
MUSIC067A	Scoring for Film, TV, and Gaming: Foundations	3	DAT115	Desktop Production Fundamentals	3
CIS004B	Computer Programming II (C++ Language)	4	SWE285	C++ Programming: Object Oriented Programming	4
CIS004B	Computer Programming II (Java)	4	SWE212	Java Programming	4

B.A. Game Design Art

West Valley College			Cogswell Polytechnical College		
Course Code	Course Title	Sem. Credit	Course Code	Course Title	Sem. Units
ART031A	Beginning Drawing	3	DAA110	Sketching	3
ART033A	Two-Dimensional Design	3	DAA100	2D Design 1	3
ART033C	Color Design	3	DAA105	Color Theory	3
ART035A	Beginning Life Drawing	3	DAA115	Figure Drawing 1	3
ART049A	Beginning Painting	3	DAA120	Traditional Painting	3
DM/IS010D	Advanced Digital Imaging	4	DAA106	Digital Imaging Concepts	3

B.S. Game Design Engineering

West Valley College			Cogswell Polytechnical College		
Course Code	Course Title	Sem. Credit	Course Code	Course Title	Sem. Units
ART031A	Beginning Drawing	3	DAA110	Sketching	3
ART033A	Two-Dimensional Design	3	DAA100	2D Design 1	3
DM/IS010D	Advanced Digital Imaging	4	DAA106	Digital Imaging Concepts	3
CIS004B	Computer Programming II (C++ Language)	4	SWE285	C++ Programming: Object Oriented Programming	4
CIS004B	Computer Programming II (Java)	4	SWE212	Java Programming	4

B.S. Software Engineering: Web and Mobile Concentration

West Valley College			Cogswell Polytechnical College		
Course Code	Course Title	Sem. Credit	Course Code	Course Title	Sem. Units
CIS004B	Computer Programming II (C++ Language)	4	SWE285	C++ Programming: Object Oriented Programming	4
CIS004B	Computer Programming II (Java)	4	SWE212	Java Programming	4
CIS37.6	iPhone and Macintosh Application Programming	3	SWE125	Introduction to Mobile Programming: iOS	3
BUS005 or CA005	Introduction to Project Management	3	DMM270	Project Management	3

B.S. Software Engineering: Software Development Concentration

West Valley College			Cogswell Polytechnical College		
Course Code	Course Title	Sem. Credit	Course Code	Course Title	Sem. Units
CIS004B	Computer Programming II (C++ Language)	4	SWE285	C++ Programming: Object Oriented Programming	4
CIS004B	Computer Programming II (Java)	4	SWE212	Java Programming	4
CIS37.6	iPhone and Macintosh Application Programming	3	SWE125	Introduction to Mobile Programming: iOS	3
BUS005 or CA005	Introduction to Project Management	3	DMM270	Project Management	3

For further information on Course Descriptions and Major Prerequisites visit <http://www.cogswell.edu/academics/catalog.php>
 More information on West Valley College visit <http://westvalley.edu/catalog/>

General Education Transfer of Credit Articulation Agreement: 2015-2016 Catalog

The following tables describe how courses will be awarded to meet Cogswell Polytechnical College's general education requirements. This agreement will be used in assessing official transcripts from West Valley College for transfer credit at Cogswell Polytechnical College.

To be considered for transfer, a course must be successfully completed with a grade of C or better. All coursework in this table will be considered lower division level.

These courses fulfill the competency requirements of the Cogswell Polytechnical College course shown; however, these courses may not fulfill the credit requirements for your program. To obtain an undergraduate degree at Cogswell Polytechnical College students are required to complete the courses specified (or their approved equivalent) as listed in the College Catalog.

Courses may change or be discontinued at any time at either College. The courses listed below are approved as of January 27, 2016.

Basic Skills – 9 Units in 3 Areas*			
<i>West Valley College Course</i>	<i>Units</i>	<i>Cogswell Polytechnical College Course</i>	<i>Credits</i>

*Students must complete one (1) course in each area: i.e., Written Communication, Oral Communication, Critical Thinking

Area: Written Communication

ENGL001A English Composition	3	ENG100 English Composition	3
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Area: Oral Communication

COMM001 Public Speaking	3	ENG250 Speech and Oral Communication	3
COMM008 Interpersonal Communication	3	No Equivalent Course	3
COMM010 Persuasive Speaking	3	No Equivalent Course	3
COMM010H Honors Persuasive Speaking	3	No Equivalent Course	3
COMM020 Argumentation and Debate	3	ENG235 Art of Argumentation	3

Area: Critical Thinking

COMM004 Small Group Communication	3	No Equivalent Course	3
COMM020 Argumentation and Debate	3	ENG235 Art of Argumentation	3
ENGL001B English Composition	3	No Equivalent Course	3
ENGL001C Clear Thinking and Writing	3	No Equivalent Course	3
ENGL001CH Critical Thinking and Writing	3	No Equivalent Course	3
PHIL002 Introduction to Logic	3	No Equivalent Course	3
PHIL017 Logic and Critical Reasoning	3	ENG100 Critical Thinking	3

Humanities & Arts – 9 Units in 3 Areas*			
<i>West Valley College Course</i>	<i>Units</i>	<i>Cogswell Polytechnical College Course</i>	<i>Credits</i>

*Students must complete one (1) course in each area: i.e., Art, Letters, Written Communication II

Area: Art

ART001A Survey of Western Art 1	3	No Equivalent Course	3
ART001AH Honors Survey of Western Art I	3	No Equivalent Course	3
ART001B Survey of Western Art II	3	No Equivalent Course	3
ART001BH Honors Survey of Western Art II	3	No Equivalent Course	3
ART001D Survey of Modern Art	3	No Equivalent Course	3
ART001DH Honors Art of the 20 th Century	3	No Equivalent Course	3
ART001E Design in Society	3	No Equivalent Course	3
ART001G History of Photography	3	No Equivalent Course	3
ART001J Survey of Non-Western Art: Africa, Oceania, and Indigenous North Americas	3	No Equivalent Course	3
ART004 Art Appreciation	3	No Equivalent Course	3
ART004H Honors Art Appreciation	3	No Equivalent Course	3

ART007 The Art of Asia	3	No Equivalent Course	3
ART010 American Art: A Multicultural Approach	3	No Equivalent Course	3
ART012A Art of Pre-Hispanic Mexico	3	No Equivalent Course	3
ART012B Art of Colonial and Modern Mexico	3	No Equivalent Course	3
ART013 African-American Art History	3	No Equivalent Course	3
ART014 Women in Art History	3	No Equivalent Course	3
HUMAN001A Human Values in and from the Arts	3	No Equivalent Course	3
HUMAN001B Human Values in and from the Arts	3	No Equivalent Course	3
MUSIC001 Music History	3	No Equivalent Course	3
MUSIC001H Honors Music History	3	No Equivalent Course	3
MUSIC002 Music History	3	No Equivalent Course	3
MUSIC002H Honors Music History	3	No Equivalent Course	3
MUSIC007 Film Music Appreciation	3	No Equivalent Course	3
MUSIC009 Jazz – Past and Present	3	No Equivalent Course	3
MUSIC010 Music Appreciation	3	No Equivalent Course	3
MUSIC054 History of Rock and Roll Music	3	No Equivalent Course	3
MUSIC055 World Music	3	No Equivalent Course	3
THEAR010 Introduction to Theatre	3	No Equivalent Course	3
THEAR010H Honors Theatre Appreciation	3	No Equivalent Course	3
THEAR011A Script Analysis: Classical	3	No Equivalent Course	3
THEAR011B Script Analysis: Modern Realism	3	No Equivalent Course	3
THEAR011C Script Analysis: Contemporary/Absurdist	3	No Equivalent Course	3
THEAR012 Survey of Musical Theatre	3	No Equivalent Course	3
THEAR014A Survey of Film	3	No Equivalent Course	3
THEAR014B Survey of Film	3	No Equivalent Course	3
THEAR014C Survey of Film	3	No Equivalent Course	3
THEAR015 Film Appreciation	3	No Equivalent Course	3
WGS002 Women in the Arts: Multicultural Perspectives	3	No Equivalent Course	3

Area: Letters

ENGL001C Clear Thinking and Writing	3	No Equivalent Course	3
ENGL001CH Honors Critical Thinking and Writing	3	No Equivalent Course	3
ENGL005A Survey of English Literature	3	No Equivalent Course	3
ENGL005B Survey of English Literature	3	No Equivalent Course	3
ENGL006A World Literature	3	No Equivalent Course	3
ENGL006AH Honors World Literature	3	No Equivalent Course	3
ENGL006B World Literature	3	No Equivalent Course	3
ENGL006BH Honors World Literature	3	No Equivalent Course	3
ENGL007A American Literature	3	No Equivalent Course	3
ENGL007B American Literature	3	No Equivalent Course	3
ENGL010 Children's Literature	3	No Equivalent Course	3
ENGL012 African American Literature	3	No Equivalent Course	3
ENGL013 Latino/Chicano Literature	3	No Equivalent Course	3
ENGL018 Asian American Literature	3	No Equivalent Course	3
ENGL041 Literature and Film	3	No Equivalent Course	3
ENGL043 Classical Mythology	3	No Equivalent Course	3
ENGL043H Honors Classical Mythology	3	No Equivalent Course	3
ARAB001A Beginning Arabic	5	No Equivalent Course	3
CHIN001A Beginning Chinese	5	No Equivalent Course	3
FRNCH001A Beginning French	5	No Equivalent Course	3
FRNCH001B Beginning French	5	No Equivalent Course	3
GERM001A Beginning German	5	No Equivalent Course	3
GERM001B Beginning German	5	No Equivalent Course	3
ITAL001A Beginning Italian	5	No Equivalent Course	3
ITAL001B Beginning Italian	5	No Equivalent Course	3
JPNS001A Beginning Japanese	5	No Equivalent Course	3
JPNS001B Beginning Japanese	5	No Equivalent Course	3
PORTG001A Beginning Brazilian Portuguese	5	No Equivalent Course	3

RUSS001A Beginning Russian	5	No Equivalent Course	3
RUSS001B Beginning Russian	5	No Equivalent Course	3
SPAN001A Beginning Spanish	5	No Equivalent Course	3
SPAN001B Beginning Spanish	5	No Equivalent Course	3

Area: Written Communication II

ENGL001C Clear Thinking and Writing	3	No Equivalent Course	3
ENGL001CH Honors Critical Thinking and Writing	3	No Equivalent Course	3
ENGL005A Survey of English Literature	3	No Equivalent Course	3
ENGL005B Survey of English Literature	3	No Equivalent Course	3
ENGL006A World Literature	3	No Equivalent Course	3
ENGL006AH Honors World Literature	3	No Equivalent Course	3
ENGL006B World Literature	3	No Equivalent Course	3
ENGL006BH Honors World Literature	3	No Equivalent Course	3
ENGL007A American Literature	3	No Equivalent Course	3
ENGL007B American Literature	3	No Equivalent Course	3
ENGL010 Children's Literature	3	No Equivalent Course	3
ENGL012 African American Literature	3	No Equivalent Course	3
ENGL013 Latino/Chicano Literature	3	No Equivalent Course	3
ENGL018 Asian American Literature	3	No Equivalent Course	3
ENGL041 Literature and Film	3	No Equivalent Course	3
ENGL043 Classical Mythology	3	No Equivalent Course	3
ENGL043H Honors Classical Mythology	3	No Equivalent Course	3

Social Sciences – 12 Units in 3 Areas*

<i>West Valley College Course</i>	<i>Units</i>	<i>Cogswell Polytechnical College Course</i>	<i>Credits</i>
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*Students must complete one (1) course in each area (i.e., Human Behavior, Comparative Systems, and Social Issues) and have the option to complete any other course(s) in any area to meet credit requirement.

Area: Human Behavior

CHS002 Child Growth and Development	3	No Equivalent Course	3
CHS005 Diversity: Childhood and Culture	3	No Equivalent Course	3
CHS063 Child, Family, and Community	3	No Equivalent Course	3
PSYCH001 General Psychology	3	SSC180 Introduction to Psychology	3
PSYCH007 Physiological Psychology	3	No Equivalent Course	3
PSYCH009 Psychology of Women: A Multicultural Perspective	3	No Equivalent Course	3
PSYCH012 Human Growth and Development	3	No Equivalent Course	3
PSYCH017 Introduction to Social Psychology	3	No Equivalent Course	3
PSYCH025 Introduction to Abnormal Psychology	3	No Equivalent Course	3
SOC003 Social Psychology: A Sociological Perspective	3	No Equivalent Course	3
SOC045 Sociology of Human Sexuality	3	No Equivalent Course	3

Area: Comparative Systems

AJ001 Introduction to Administration of Justice	3	No Equivalent Course	3
AJ026 Organized Crime	3	No Equivalent Course	3
ANTHR003 Introduction to Cultural Anthropology	3	No Equivalent Course	3
ANTHR003H Honors Introduction to Cultural Anthropology	3	No Equivalent Course	3
ECON001A Principles of Macroeconomics	3	No Equivalent Course	3
ECON001AH Honors Principles of Macroeconomics	3	No Equivalent Course	3
ECON001B Principles of Microeconomics	3	No Equivalent Course	3
ECON001BH Honors Principles of Microeconomics	3	No Equivalent Course	3
GEOG002 Introduction Cultural Geography	3	No Equivalent Course	3
GEOG006 World Regional Geography	3	No Equivalent Course	3
HIST003 Asian American History	3	No Equivalent Course	3
HIST004A Western Civilization I: Prehistory to 1500 CE	3	No Equivalent Course	3
HIST004B Western Civilization II: 1500 CE to Present	3	No Equivalent Course	3
HIST005A World History: Prehistory to 1500	3	No Equivalent Course	3
HIST005B World History From 1500	3	No Equivalent Course	3

HIST008A History of Latin America/Caribbean, Prehistory to 1825	3	No Equivalent Course	3
HIST008B History of Latin America/Caribbean, 1825 to Present	3	No Equivalent Course	3
HIST012 African American History	3	No Equivalent Course	3
HIST014 History of the Native North Americans	3	No Equivalent Course	3
HIST016 Mexican-American History	3	No Equivalent Course	3
HIST017A United States History	3	No Equivalent Course	3
HIST017B United States History	3	No Equivalent Course	3
HIST017BH Honors United States History	3	No Equivalent Course	3
HIST020 History and Geography of California	3	No Equivalent Course	3
HIST034 History of the Middle East	3	No Equivalent Course	3
PHIL001 Introduction to Philosophy	3	No Equivalent Course	3
PHIL003 Introduction to Ethics	3	No Equivalent Course	3
PHIL004 Patterns in Comparative Religions	3	No Equivalent Course	3
PHIL005 Introduction to Social and Political Philosophy	3	No Equivalent Course	3
PHIL012 Introduction to Environmental Ethics	3	No Equivalent Course	3
POLIT001 American Government	3	No Equivalent Course	3
POIT001H Honors American Government	3	No Equivalent Course	3
POLIT002 Comparative Systems	3	No Equivalent Course	3
POLIT004 International Relations	3	No Equivalent Course	3
SOC001 Introduction to Sociology	3	No Equivalent Course	3
SOC002 Social Problems	3	No Equivalent Course	3
SOC020 Sociology of Race and Ethnicity	3	No Equivalent Course	3
WS001 Introduction to Women's Studies: Knowledge, Gender and Power	4	No Equivalent Course	3
WGS001 Introduction to Women's Studies	4	No Equivalent Course	3
WGS003 Introduction to Gender Studies	3	No Equivalent Course	3
WGS004A Women in World Cultures from Prehistory to 1500CE	3	No Equivalent Course	3

Area: Social Issues

AJ026 Organized Crime	3	No Equivalency	3
ANTHR002 Introduction to Archaeology	3	No Equivalency	3
ANTHR004 Introduction to Linguistic Anthropology	3	No Equivalent Course	3
ANTHR055 Anthropology of Magic, Witchcraft, and Religion	3	No Equivalent Course	3
CHS005 Diversity: Childhood and Culture	3	No Equivalent Course	3
COMM012 Intercultural Communication	3	No Equivalent Course	3
HIST003 Asian American History	3	No Equivalent Course	3
HIST004A Western Civilization I: Prehistory to 1500 CE	3	No Equivalent Course	3
HIST004B Western Civilization II: 1500 CE to Present	3	No Equivalent Course	3
HIST005A World History: Prehistory to 1500	3	No Equivalent Course	3
HIST005B World History From 1500	3	No Equivalent Course	3
HIST008A History of Latin America/Caribbean, Prehistory to 1825	3	No Equivalent Course	3
HIST008B History of Latin America/Caribbean, 1825 to Present	3	No Equivalent Course	3
HIST012 African American History	3	No Equivalent Course	3
HIST014 History of the Native North Americans	3	No Equivalent Course	3
HIST016 Mexican-American History	3	No Equivalent Course	3
HIST017A United States History	3	No Equivalent Course	3
HIST017B United States History	3	No Equivalent Course	3
HIST017BH Honors United States History	3	No Equivalent Course	3
HIST020 History and Geography of California	3	No Equivalent Course	3
HIST034 History of the Middle East	3	No Equivalent Course	3
POLIT001 American Government	3	No Equivalent Course	3
POIT001H Honors American Government	3	No Equivalent Course	3
POLIT003 Introduction to Political Science	3	No Equivalent Course	3
POLIT003H Honors Introduction to Political Science	3	No Equivalent Course	3
SOC001 Introduction to Sociology	3	No Equivalent Course	3
SOC002 Social Problems	3	No Equivalent Course	3
SOC003 Social Psychology: A Sociological Perspective	3	No Equivalent Course	3
SOC020 Sociology of Race and Ethnicity	3	No Equivalent Course	3

WS001 Introduction to Women's Studies: Knowledge, Gender and Power	4	No Equivalent Course	3
WGS001 Introduction to Women's Studies	4	No Equivalent Course	3
WGS002 Women in Arts: Multicultural Perspectives	3	No Equivalent Course	3
WGS003 Introduction to Gender Studies	3	No Equivalent Course	3
WGS004A Women in World Cultures from Prehistory to 1500CE	3	No Equivalent Course	3

Mathematics & The Sciences for Non-Engineering – 9 Units in 2 Areas*

<i>West Valley College Course</i>	<i>Units</i>	<i>Cogswell Polytechnical College Course</i>	<i>Credits</i>
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*Students must complete one (1) course in each area (i.e., Mathematical Concepts and Quantitative Reasoning, Physical and Biological Sciences) and complete a second Physical and Biological Science course to meet credit requirement.

Area: Mathematical Concepts & Quantitative Reasoning

MATH002 Pre-Calculus Algebra and Trigonometry	6	MATH116 Pre-Calculus	4
MATH003A Calculus and Analytical Geometry	5	MATH143 Calculus 1	4

Area: Physical & Biological Sciences**

ASTRO010 Solar System Astronomy with ASTRO002 Astronomy Laboratory	3 1	No Equivalent Course	3
ASTRO011 Stellar Astronomy ASTRO002 Astronomy Laboratory	3 1	No Equivalent Course	3
ASTRO020 Family of the Sun	4	No Equivalent Course	3
ASTRO020H Honors Family of the Sun	4	No Equivalent Course	3
ASTRO021 Lifestyles of the Stars	4	No Equivalent Course	3
ASTRO021H Honors Lifestyles of the Stars	4	No Equivalent Course	3
BIO010 Introduction to Biology with BIO010L Introduction to Biology Lab	3 1	No Equivalent Course	3
BIO011 Human Biology	4	No Equivalent Course	3
BIO011H Honors Human Biology	4	No Equivalent Course	3
BIO012 Introduction to Ecology and Wildlife	3	No Equivalent Course	3
BIO014 California Plants and Animals	3	No Equivalent Course	3
BIO018 Marine Biology	4	No Equivalent Course	3
BIO022 Genetics	4	No Equivalent Course	3
BIO041 Principles of Animal Biology	5	No Equivalent Course	3
BIO042 Principles of Plant Biology	5	No Equivalent Course	3
BIO043 Principles of Cell Biology	5	No Equivalent Course	3
BIO047 Human Anatomy	5	No Equivalent Course	3
BIO048 Human Physiology	5	No Equivalent Course	3
CHEM001A General Chemistry	5	No Equivalent Course	3
CHEM001B General Chemistry	5	No Equivalent Course	3
CHEM002 Introductory Chemistry	4	No Equivalent Course	3
CHEM030A Fundamentals of Chemistry	4	No Equivalent Course	3
CHEM030B Fundamentals of Chemistry	3	No Equivalent Course	3
GEOL001A Physical Geology	4	No Equivalent Course	3
GEOL001AH Honors Physical Geology	4	No Equivalent Course	3
OCEAN010 Introduction to Oceanography	4	No Equivalent Course	3
PHYS002A General Physics – Mechanics	5	No Equivalent Course	3
PHYS002B General Physics – Electricity and Magnetism	5	SCI200 General Science	3
PHYS004A Engineering Physics – Mechanics	5	SCI145 College Physics 1	4
PHYS004B Engineering Physics – Electricity and Magnetism	5	SCI245 College Physics 2	3
PHYS010 Conceptual Introduction to Physics	4	SCI100 Basic Concepts of Physics	3

**PHYSICAL & BIOLOGICAL SCIENCES: Students in a Digital Audio Technology program who have not completed a physics course will be required to take a physics course to meet pre-requisite coursework for secondary science course in program of study.

Mathematics & The Sciences for Engineering – 10 Units in 2 Areas*

<i>West Valley College Course</i>	<i>Units</i>	<i>Cogswell Polytechnical College Course</i>	<i>Credits</i>
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*Students must complete one (1) course in each area (i.e., Mathematical Concepts and Quantitative Reasoning, Physical and Biological Sciences) and complete a second Physical and Biological Science course to meet credit requirement.

Area: Mathematical Concepts & Quantitative Reasoning

MATH003A Calculus and Analytical Geometry	5	MATH143 Calculus 1	4
MATH003B Calculus and Analytical Geometry and MATH004B Differential Equations	5 4	MATH144 Calculus 2***	3
MATH004A Intermediate Calculus	5	MATH245 Calculus 3***	3
MATH019 Discrete Mathematics	4	MATH295 Discrete Mathematics***	3

Area: Physical & Biological Sciences**

PHYS002B General Physics – Electricity and Magnetism	5	SCI200 General Science	3
PHYS004A Engineering Physics – Mechanics	5	SCI145 College Physics 1	4
PHYS004B Engineering Physics – Electricity and Magnetism	5	SCI245 College Physics 2	3

**PHYSICAL & BIOLOGICAL SCIENCES: Students in an engineering program may have different additional mathematic and sciences requirements. Those students should consult with the Program Director or review the curriculum outline for Cogswell Polytechnical College.

***Additional mathematic courses are required for engineering students. Not included in the overall calculation of 10 credits.

For further information on Course Descriptions and Major Prerequisites visit <http://www.cogswell.edu/academics/catalog.php>
More information on West Valley College visit <http://westvalley.edu/catalog/>