

EDUCATIONAL TECHNOLOGY CERTIFICATE OF ACHIEVEMENT

DIVISION/DEPARTMENT REQUIREMENTS		UNITS
You must complete 11 units in the following area:		
EDT 100	Integration of the Internet into Curriculum	2
EDT 103	Spreadsheets for Educators	2
EDT 104	Word Processing for Educators	2
EDT 105	PowerPoint for Educators	2
EDT 111	Web Design for Educators	1
EDT 125	Fundamentals of Online Teaching	2
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		11
Additional Requirements – You must complete 7 units in the following area:		
EDT 50	Preparation for Online Learning	1
EDT 51	Communicating in the Online Environment	1
EDT 67	Using Mind-Mapping Tools in Education	1
EDT 68	Using Kidpix	1
EDT 101	Creating Curriculum Projects Using the Internet	1
EDT 106	Database in Education	2
EDT 107	Desktop Publishing for Educators	1
EDT 108	Photoshop Elements for Educators	2
EDT 109	Developing Education-Based Portfolios	1
EDT 112	Creating Virtual Curriculum	3
EDT 120	Exploring Assistive Technology in Education	2
EDT 121	Using Mobile Technology in Education	2
EDT 122	Fundraising/Grant Writing for Educators	2
EDT 123	Internet Tools for Educators	2
EDT 132	Using Audio in the Classroom	2
EDT 137	Creating Educational Media	2
EDT 138	Teaching with Clay Animation	2
EDT 150	Podcasting in Education	2
EDT 170	Using a CMS/LMS for Education	2
ART 196	Web Design with Flash and Dreamweaver	3
CIS 50	Basic Computer Literacy	.5
PHOT 112	Intermediate Digital Photography	3
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TOTAL CERTIFICATE REQUIREMENTS		18

To be awarded a Certificate of Achievement by the college, a student must complete all major requirements and 7 additional units from the list above to total a minimum of 18 units.

INSTRUCTIONAL MULTI-MEDIA CERTIFICATE OF ACHIEVEMENT

DIVISION/DEPARTMENT REQUIREMENTS		UNITS
EDT 30	Fundamentals of Instructional Multi-Media Production	1
EDT 105	PowerPoint for Educators	2
EDT 108	Photoshop Elements for Educators	2
EDT 120	Exploring Assistive Technology in Education	2
EDT 132	Using Audio in the Classroom	2
EDT 137	Creating Educational Media	2
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		11

Curriculum and Requirements for Majors and Certificates

Additional Requirements – You must complete 7 units in the following area:

EDT 51	Communicating in the Online Environment	1
EDT 100	Integration of the Internet into Curriculum	2
EDT 101	Creating Curriculum Projects Using the Internet	1
EDT 104	Word Processing for Educators	2
EDT 107	Desktop Publishing for Educators	1
EDT 111	Web Design for Educators	1
EDT 112	Creating Virtual Curriculum	3
EDT 121	Using Mobile Technology in Education	2
EDT 123	Internet Tools for Educators	2
EDT 125	Fundamentals of Online Teaching	2
EDT 138	Teaching with Clay Animation	2
EDT 150	Podcasting in Education	2
ART 196	Web Design with Flash and Dreamweaver	3
PHOT 112	Intermediate Digital Photography	3
TOTAL CERTIFICATE REQUIREMENTS		18

LIST B - Select 1 course (3-4 Units)

ECON 101	Economic Issues and Policy	3
or ECON 102	Women in Global Economy	(3)
or ECON 204	Money, Ethics and Economic justice	(3)
MATH 220	Analytical Geometry & Calculus III	4
TOTAL UNITS FOR THE MAJOR		20-22

ASSOCIATE IN ARTS IN ECONOMICS FOR TRANSFER REQUIREMENT:

(1) Complete 60 semester units or 90 quarter units which are eligible for transfer to the California State University (CSU) system, including both of the following: (A) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements. (B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district. (2) Obtain a minimum grade point average of 2.0. ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis.

ECONOMICS

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

MAJOR REQUIREMENTS

	UNITS	
ECON 201	Principles of Macroeconomics	3
or ECON 201M	Principles of Macroeconomics	(3)
ECON 202	Principles of Microeconomics	3
or ECON 202M	Principles of Microeconomics	(3)
MATH 80	Intermediate Algebra	4
MATH 114	College Algebra	4
MATH 116	Calculus for Managerial, Biological and Social Sciences	4
TOTAL ASSOCIATE IN ARTS DEGREE REQUIREMENTS:		18

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Completion of a minimum of 60 semester units to include (1) the courses listed above, (2) the associate in arts degree general education requirements, and (3) a grade of “C” or better in all courses required by major.

ECONOMICS

ASSOCIATE IN ARTS IN ECONOMICS FOR TRANSFER (AA-T)

REQUIRED CORE COURSES (14 Units):

	UNITS	
ECON 201M	Principles of Macroeconomics	3
ECON 202M	Principles of Microeconomics	3
MATH 112	Elementary Statistic	4
or PSYC 210	Elementary Statistics	(4)
MATH 116	Calculus for Managerial-Biological-Social Sciences	4
or MATH 170	Analytical Geometry and Calculus I	(4)

LIST A - Select 1 course (3-4 Units)

MATH 115	Finite Mathematics	4
MATH 190	Analytical Geometry and Calculus I	4
ACCT 101	Fundamentals of Accounting I	4
ACCT 102	Fundamentals of Accounting II	4
CIS 101	Introduction to Computer Information Systems	3
BCOT 247	Managerial Business Communications	3

ELEMENTARY TEACHER EDUCATION

ASSOCIATE IN ARTS DEGREE IN ELEMENTARY TEACHER EDUCATION FOR TRANSFER (AA-T)

REQUIRED CORE (42 UNITS)

	UNITS	
EDEL 200	Introduction to Education	3
CD 110	Child Development	3
BIOL 120	Introduction to Biological Science	4
PS 112	Physical Science for Elementary School Teachers	3
ESCI 110	Introduction to Earth Science	4
MATH 110A	Mathematics for Elementary School Teachers	3
SPCH 130	Fundamentals of Speaking	3
ENGL 100	Freshman Composition	4
ENGL 102	Freshman Composition and Literature	3
GEOG 105	World Regional Geography	3
HIST 245	World Civilization from Antiquity to 1500	3
HIST 102	Political and Social History of the United States 1500s to 1876	3
POL 101	American Political Institutions	3

List A: Select one course (3 units)

ENGL 101	Critical Thinking Through Literature	3
ENGL 103	Critical and Argumentative Writing	3
PHIL 103	Philosophical Reasoning: Critical Thinking in Philosophy	3
PHIL 106	Introduction to Logic	3
PSYC 103	Critical Thinking in Psychology	3
SPCH 235	Fundamentals of Argumentation and Persuasion	3
READ 200	Analysis and Critical Reading	3

List B: Select one course (3 units)

ART 100	Introduction to World Art	3
DANC 101	History of Dance	3
TH 101	Introduction to Theatre	3

TOTAL UNITS FOR THE MAJOR 48

Curriculum and Requirements for Majors and Certificates

ASSOCIATE IN ARTS IN ELEMENTARY TEACHER EDUCATION FOR TRANSFER REQUIREMENTS:

Complete the following (1) 60 semester or 90 quarter CSU – transferable units (2) The California State University-General Education-Breadth pattern (CSU GE-Breadth); or the Intersegmental General Education Transfer Curriculum (IGETC) pattern (3) A minimum of 18 semester or 27 quarter units in the major or area of emphasis as determined by the community college district (4) Obtainment of a minimum grade point average (GPA) of 2.0 (5) Earn a grade of “C” or better in all courses required for the major or area of emphasis.

ENGINEERING DESIGN TECHNOLOGY

CERTIFICATE OF ACHIEVEMENT

REQUIRED COURSES	UNITS
ENGT 116 Blueprint Reading	2
ENGT 117 Geometrical Dimensioning and Tolerancing	2
ENGT 131 Design Fundamentals Including AutoCAD	3
ENGT 237 Statics and Strength of Materials	3
MTT 62 Fixture Tooling	2
MTT 68 Computer-Assisted Inspection Using Verisurf	2
NPD 103 Tooling and Materials for New Product Development	3
NPD 105 Mechatronics Integration in New Product Development	3
PMT 100 Plastics Technology	2.5
Total Certificate Requirement	22.5

RECOMMENDED ELECTIVE: ENGT 104 or ENGT 133 or ENGT 153 or ENGT 258

ENGINEERING DESIGN AND PRODUCTION TECHNOLOGY

CERTIFICATE OF ACHIEVEMENT

REQUIRED COURSES	UNITS
ENGT 116 Blueprint Reading	2
ENGT 117 Geometrical Dimensioning and Tolerancing	2
ENGT 131 Design Fundamentals Including AutoCAD	3
ENGT 237 Statics and Strength of Materials	3
MTT 62 Fixture Tooling	2
MTT 68 Computer-Assisted Inspection Using Verisurf	2
NPD 103 Tooling and Materials for New Product Development	3
NPD 105 Mechatronics Integration in New Product Development	3
PMT 100 Plastics Technology	2.5
ENGT 265 CATIA I	4
and ENGT 266 CATIA II	4
or ENGT 259 SolidWorks	(4)
and ENGT 260 Advanced Modeling Using SolidWorks	(4)
or ENGT 257 Advanced Modeling Using Inventor	(4)
and ENGT 103 Introduction to Engineering Design Using Inventor	(3)
or ENGT 138 AutoCAD	(4)
and ENGT 153 Machine Design Applications Using Solid Modeling	(3)
Total Certificate	29.5-30.5

RECOMMENDED ELECTIVE: ENGT 104 or ENGT 258

ENGINEERING TECHNOLOGY

CERTIFICATE OF ACHIEVEMENT REQUIREMENTS

Engineering Technology Certificates of Achievement are available under three options: Electrical and Electronic Engineering Technician, Mechanical Engineering Technician, and Industrial Engineering Technician. The basic core courses must be taken for all three certificate options:

ENGINEERING TECHNOLOGY BASIC CORE COURSES		UNITS
ET 93L Process Control Laboratory		1
ET 101 Principles of Engineering Technology		3
ET 102 Electronics for Engineering Technologists		3
ET 103 Industrial Process Control		2
Total Certificate Requirements		9
ELECTRICAL AND ELECTRONIC ENGINEERING TECHNICIAN		
ET 91L Engineering Technology Project Laboratory		1
ET 104 Engineering Technology Project Development		1
ET 105 Industrial Motor Control		2
ENGT 103 Introduction to Engineering Design Using Inventor		3
MTT 180 Robotics for Computer Numerically Controlled Machines		3
Total Certificate Requirements		19
MECHANICAL ENGINEERING TECHNICIAN		
ENGT 103 Introduction to Engineering Design Using Inventor		3
MTT 100 Machine Tool Introduction		2
MTT 180 Robotics for Computer Numerically Controlled Machines		3
NPD 104 Programmable Logic Controllers in New Product Development		3
PMT 50 Survey of Hydraulics and Pneumatics		1.5
PMT 100 Plastics Technology		2.5
WELD 100 Welding Fundamentals		2.5
WMT 101 Introduction to Woodworking		3
Total Certificate Requirements		29.5
INDUSTRIAL ENGINEERING TECHNICIAN		
ET 91L Engineering Technology Project Laboratory		1
ET 104 Engineering Technology Project Development		1
ET 105 Industrial Motor Control		2
NPD 104 Programmable Logic Controllers in New Product Development		3
NPD 106 Safety in New Product Development		2
Total Certificate Requirements		18

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete 60 units to include (1) the above requirements for a Certificate of Achievement; (2) MATH 140; (3) the Associate of Arts Degree General Education requirements; and (4) electives as needed.

See Cerritos College Graduation Requirements.

Curriculum and Requirements for Majors and Certificates

ENGLISH

ENGLISH

ASSOCIATE IN ARTS DEGREE FOR TRANSFER (AA-T)

REQUIRED CORE (6 Units—two courses)

ENGL 102	Freshman Composition and Literature	3
ENGL 103	Critical and Argumentative Writing	3

LIST A (6 Units—choose any two courses)

ENGL 230A	Introduction to American Literature	3
ENGL 230B	Introduction to American Literature	3
ENGL 246A	Survey of English Literature	3
ENGL 246B	Survey of English Literature	3
ENGL 248A	Masterpieces of World Literature	3
ENGL 248B	Masterpieces of World Literature	3
ENGL 232	Readings in Poetry	3
ENGL 234	Readings in Short Fiction	3
ENGL 235	Readings in the Drama	3

LIST B (3 Units-1 course)

Any course from List A not already used, or any of the following:

ENGL 225	Mexican Literature in Translation	3
ENGL 228	Shakespeare's Plays	3
ENGL 237	Asian American Literature	3
ENGL 240	Creative Writing	3
ENGL 245	World Mythology as Literature	3

LIST C (3 Units-1 course)

Any course from List A and B not already used, OR any language course other than English which is articulated to fulfill CSU GE Area C, OR any CSU transferable English course:

ENGL 106	Introduction to Linguistics	3
ENGL 221A	Literature in the Bible: Hebrew Scriptures	3
ENGL 221B	Literature in the Bible: Christian Scriptures	3
ENGL 222	Children's Literature	3
ENGL 223	Chicana/Chicano Literature	3
ENGL 224	Native American Literature	3
ENGL 226	African-American Literature	3
ENGL 227	Current Literature	3
ENGL 236	Studies in Women's Literature	3
ENGL 238	Classic Islamic Literature	3
ENGL 241	Screenwriting	3
CHIN 101	Elementary Chinese	5
FREN 101	Elementary French	5
FREN 102	Elementary French	5
FREN 201	Intermediate French	5
FREN 202	Intermediate French	4
FREN 203	Intermediate French Advanced Level 1	4
FREN 285	Romance Linguistics	3
GERM 101	Elementary German	5
GERM 102	Elementary German	5
GERM 201	Intermediate German	4
GERM 202	Intermediate German	4
JAPN 101	Elementary Japanese	5
JAPN 102	Elementary Japanese	5
JAPN 201	Intermediate Japanese	5
JAPN 202	Intermediate Japanese	4
SPAN 101	Elementary Spanish	5
SPAN 102	Elementary Spanish	5
SPAN 111	Elementary Spanish for Spanish Speakers	5

SPAN 112	Elementary Spanish for Spanish Speakers	5
SPAN 201	Intermediate Spanish	5
SPAN 202	Intermediate Spanish	4
SPAN 205	Advanced Spanish Composition	3
SPAN 206	Hispanic Literature in the Media	3
SPAN 210	Highlights of Hispanic Culture	3
SPAN 245	Introduction to Chicano/ Mexican American Culture	3
SPAN 285	Romance Linguistics	3

or any of the following:

JOUR 100	Mass Communications and Society	3
or JOUR 101	Beginning Newswriting and Reporting	(3)
SPCH 140	Oral Interpretation of Literature	3
HUM 100	The Art of Being Human	3
TH 101	Introduction to the Theatre	3

TOTAL UNITS FOR THE MAJOR 18-20

ASSOCIATE IN ARTS IN ENGLISH FOR TRANSFER REQUIREMENTS:

Complete the following (1) 60 semester or 90 quarter CSU – transferable units (2) The California State University-General Education-Breadth pattern (CSU GE-Breadth); or the Intersegmental General Education Transfer Curriculum (IGETC) pattern (3) A minimum of 18 semester or 27 quarter units in the major or area of emphasis as determined by the community college district (4) Obtainment of a minimum grade point average (GPA) of 2.0 (5) Earn a grade of “C” or better in all courses required for the major or area of emphasis.

ENGLISH

ASSOCIATE IN ARTS DEGREE

MAJOR REQUIREMENTS

CORE REQUIREMENTS

Select two courses (7 units)

ENGL 100	Freshman Composition	4
ENGL 102	Freshman Composition and Literature	3
or ENGL 103	Critical and Argumentative Writing	(3)

Choose 12 units from the following courses

ENGL 221A	Literature in the Bible: Hebrew Scriptures	3
ENGL 221B	Literature in the Bible: Christian Scriptures	3
ENGL 222	Children's Literature	3
ENGL 225	Mexican Literature in Translation	3
ENGL 226	African-American Literature	3
ENGL 227	Current Literature	3
ENGL 228	Shakespeare's Plays	3
ENGL 230A	Introduction to American Literature	3
ENGL 230B	Introduction to American Literature	3
ENGL 232	Readings in Poetry	3
ENGL 233	Readings in the Novel	3
ENGL 234	Readings in Short Fiction	3
ENGL 235	Readings in the Drama	3
ENGL 246A	Survey of English Literature	3
ENGL 246B	Survey of English Literature	3
ENGL 248A	Masterpieces of World Literature	3
ENGL 248B	Masterpieces of World Literature	3

TOTAL UNITS FOR MAJOR: 19

Curriculum and Requirements for Majors and Certificates

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

Complete the following: (1) Major requirements, (2) the A.A. Degree General Education requirements, and (3) electives to achieve a minimum of 60 units.

CREATIVE WRITING

CERTIFICATE OF ACHIEVEMENT

CORE REQUIREMENTS		UNITS
ENGL 100	Freshman Composition	4
ENGL 102	Freshman Composition and Literature	3
or ENGL 103	Critical and Argumentative Writing	(3)

Choose one introductory writing workshop from the following

ENGL 240	Creative Writing	3
or ENGL 241	Screenwriting	(3)

Take the advanced writing workshop from the following

ENGL 250	Advanced Creative Portfolio	3
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OTHER REQUIRED COURSES

Choose one course in form and theory of genre from the following

ENGL 232	Reading in Poetry	3
ENGL 233	Readings in the Novel	3
ENGL 234	Readings in Short Fiction	3
ENGL 235	Readings in the Drama	3

Choose one course in global poetics from the following

ENGL 223	Chicana/Chicano Literature	3
ENGL 224	Native American Literature	3
ENGL 226	African-American Literature	3
ENGL 236	Studies in Women's Literature	3
ENGL 237	Asian American Literature	3
ENGL 238	Classic Islamic Literature	3
ENGL 239	Literature of India	3
ENGL 248A	Masterpieces in World Literature	3
ENGL 248B	Masterpieces in World Literature	3
ENGL 245	World Mythology	3

TOTAL CERTIFICATE OF ACHIEVEMENT REQUIREMENTS: 19