

ASSOCIATE OF ARTS DEGREE FOR TRANSFER IN ANTHROPOLOGY

AA-T DEGREE

Description

The Associate in Arts Degree in Anthropology for Transfer is designed to prepare students for a seamless transfer with junior status and priority admission to their local CSU campus to a program or major in Anthropology or similar major for completion of a baccalaureate degree. Students are required to complete: * a minimum of 19 semester units in the major with a grade of C or better while maintaining a minimum grade point average (GPA) of at least 2.0 in all CSU transferable coursework. * 60 semester CSU-transferable units using the California State University-General Education-Breadth pattern (CSU-GE Breadth); OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern. * No more than 60 semester units are required. The Associate in Arts Degree in Anthropology for Transfer will also assist Anthropology major students to transfer to a U.C. or other baccalaureate institutions. Students are advised to consult with a counselor to verify transfer requirements.

Career Opportunities

Attend graduate school, work for nonprofit and for profit organizations, museums, zoos, and government

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Discuss the relationship between past and present community interactions
 2. Apply knowledge of genetics & evolutionary forces to analyze diversity in human populations
 3. Apply holistic analysis to social phenomena
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Degree Requirements:

Core Courses (5 courses or 16 units)
Credit Hours: (16 Required)

ANTHR001	Introduction to Physical Anthropology	3
ANTHR002	Introduction to Archaeology and Prehistory	3
ANTHR003	Introduction to Social and Cultural Anthropology	3
MATH013	Introduction to Statistics	4
SOC120	Introduction to Research Methods	3

Choose 1 course from the following (3 units)
Credit Hours: (3 Required)

ANTHR007	Magic, Religion and Witchcraft	3
ANTHR014	Introduction to the Anthropology of Race, Class, Ethnicity, and Society	3
ANTHR019	Anthropology of Sex and Gender	3
ETHST013	Introduction to Community Based Research in Urban America	3
HUMAN040	Religions of the World	3
SOC001	Introduction to Sociology	3

IGETC or CSU GE-Breadth Education pattern (37-39)
Credit Hours: (36 Required)
CSU Transferable General Elective Courses to meet 60 units
Credit Hours: (5 Required)
Total: 60

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Laney College

ASSOCIATE IN ARTS DEGREE IN POLITICAL SCIENCE FOR TRANSFER

AA-T DEGREE

Description

The Associate in Arts in Political Science for Transfer Degree is designed to prepare students for a seamless transfer with junior status and priority admission to their local CSU campus to a program or major in Political Science or similar major for completion of a baccalaureate degree. Students are required to complete: A minimum of 18 semester units in the major with a grade of C or better while maintaining a minimum grade point average (GPA) of at least 2.0 in all CSU transferable coursework. The Associate Arts in Political Science for Transfer Degree will also assist Political Science major students to transfer to a U.C. or other baccalaureate institutions. Students are advised to consult with a counselor to verify transfer requirements.

Career Opportunities

Political Activist Public Administration Campaign Organizer Community Organizer

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Define the core concepts of political science (government, regime, state, institutions, sovereignty, constitution, democracy, authoritarianism, and globalization)
2. Identify, compare, and contrast the major theoretical perspectives in the discipline.
3. Interpret political science research through a working knowledge of qualitative and quantitative research designs
4. Discuss the constitutional, institutional, cultural and institutional structures that produce and maintain political, social and ethnic inequalities.

Degree Requirements:

Required Core Course: 3 units	Credit Hours: (3 Required)
POSCI001 Government and Politics in the United States	3
Select three of the following: 9-10 units	Credit Hours: (9 - 10 Required)
POSCI004 Political Theory	3
POSCI002 Comparative Government	3
POSCI003 International Relations	3
MATH013 Introduction to Statistics	4
Select two of the following: 6 units	Credit Hours: (6 Required)
POSCI006 The U.S. Constitution and Criminal Due Process	3
SOC001 Introduction to Sociology	3
SOC002 Social Problems	3
IGETC or CSU GE-Breadth Education pattern (37-39)	Credit Hours: (37 Required)
CSU Transferable General Elective Courses to meet 60 units	Credit Hours: (4 Required)

Total: 59.00 - 60.00

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ASSOCIATE OF ARTS DEGREE FOR TRANSFER IN PSYCHOLOGY

AA-T DEGREE

Description

The Associate in Arts in Psychology for Transfer Degree is designed to prepare students for a seamless transfer with junior status and priority admission to their local CSU campus to a program or major in Psychology or similar major for completion of a baccalaureate degree. Students are required to complete: A minimum of 18 semester units in the major with a grade of C or better while maintaining a minimum grade point average (GPA) of at least 2.0 in all CSU transferable coursework. The Associate Arts in Psychology for Transfer Degree will also assist Psychology major students to transfer to a U.C. or other baccalaureate institutions. Students are advised to consult with a counselor to verify transfer requirements.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Read critically and write effective essays.
2. Analyze and utilize empirical findings.
3. Analyze major psychological theories and concepts.

Degree Requirements:

Required courses

Credit Hours: (14 Required)

PSYCH001A	Introduction to General Psychology	3
PSYCH028	Introduction to Research Methods in Psychology	3
BIOL010	Introduction to Biology	4
MATH013	Introduction to Statistics	4

Select two of the following:

Credit Hours: (3 Required)

PSYCH006	Social Psychology	3
PSYCH007A	Psychology of Childhood	3
PSYCH021	Lifespan Human Development	3
PSYCH024	Abnormal Psychology	3
PSYCH012 or	Human Sexuality	3
BIOL027	Human Sexuality	3
SOC001	Introduction to Sociology	3

IGETC or CSU GE-Breadth Education pattern (37-39)

Credit Hours: (39 Required)

CSU Transferable Elective Course to meet 60 units

Credit Hours: (4 Required)

Total: 60

BUILDING PERFORMANCE AND ENERGY EFFICIENCY

CERTIFICATE OF ACHIEVEMENT

Description

Preparation of students for employment in building performance: Employability skills, residential energy retrofitting skills, and small commercial commissioning skills. Students gain broad-based background skills and hands-on experience analyzing and improving the building as a system. Basic to all topics is the assurance of health and safety for occupants and workers through maintenance of indoor air quality.

Career Opportunities

Appropriate for a variety of educational goal categories: Recent high school graduates seeking preparation to enter the job market with further education plans as well as working adults seeking re-training in this field.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Students will be able to apply employability skills including soft skills, customer relations skills, and proper health and safety practices to retaining employment in the field.
2. Students will demonstrate analytical skills in math, computer usage, and financial analysis, and be prepared to implement these skills with further higher level training by their employer.
3. Students will be able to perform a residential energy survey, perform residential energy use assessment tests and present information to clients and be prepared to assist marketing their employer's services.
4. Students will be able to explain energy retrofitting skills including building frame modification, building envelope air sealing, HVAC system modification, electrical, plumbing, and refrigeration repair, and be able to perform them at an apprentice level on the job.
5. Students will be able to explain the ecological importance of energy conservation.
6. Students will model environmentally conscious behavior when on the job.
7. Students will be able to implement green building methods and select green materials on the job.
8. Students will be able to use a building systems approach to problem solving and assuring indoor air quality.

Degree Requirements:

Certificate of Achievement Requirements:

Credit Hours: (15.5 Required)

First Semester

ARCH112	Building Systems Principles for Sustainable Residential Adaptation	2
CARP205	Green Construction Techniques and Materials	2
CARP233	Residential Electrical For Carpenters	1.5
CARP240A	Construction Rehabilitation	2
ECT001	Physics for Building Science	4
ECT028	Energy Management and Efficiency in Building Systems	2
ECT038	Measurement of Building Energy Efficiency	2

Second Semester

Credit Hours: (14 Required)

CARP206	Energy Efficiency and Weatherization	3.5
CARP232	Residential Plumbing for Carpenters	1.5

E/ET227	Customer Service for the Building Trades	2
ECT016	Fundamentals of Residential and Light Commercial HVAC Systems	2
ECT017	Residential and Light Commercial HVAC Troubleshooting	1
ECT018	HVAC Installation Practices	1
ECT039	Energy Auditing and Computer Analysis of Building Efficiency	2
ECT213	Indoor Air Quality and Building Envelope	1

Total: 29.5

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BUSINESS INFORMATION SYSTEMS

A.S. DEGREE

Description

The need for personnel that effectively use computerized software office software is paramount in position in industry and government. The Business Information System Degree is designed to give students the skills and knowledge to prepare them for these challenges.

Career Opportunities

The Business Information Systems AA degree program prepares students to work in an office environment. It prepares students to assume positions as office managers, supervisors, administrative assistance. These positions use a variety of office technology and computer-based applications (word processing, electronic mail, database, spreadsheets, presentation graphics. Classes emphasize technology, proofreading and editing, document formatting, electronic filing, accounting, and human relations. Students will develop administrative skills necessary to participate as part of the management team. Office management personnel assist in planning, organizing, and controlling the information related activities and in leading or directing people to attain the objectives of the organization. They support and help facilitate accurate communication and information exchange to internal and external customers on a timely basis.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Information Competency: Obtain information related to the profession using traditional and electronic sources. Synthesize the information into written or oral business reports.
2. Critical Thinking: Analyze business situations and recommend solutions or plans for improvement.
3. Computational Skills: Analyze data and prepare common business and personal financial reports.

Degree Requirements:

FIRST SEMESTER

Credit Hours: (7 Required)

Degree Major/Certificate Requirements:

BUS038	Introduction to the Microcomputers and Business Software	4
BUS207A	Business English	3

SECOND SEMESTER

Credit Hours: (9 Required)

BUS205	Filing and Records Management	3
BUS201	Business Communications +	3
BUS202	Business Mathematics ***	3

THIRD SEMESTER

Credit Hours: (8 Required)

BUS043B	Introduction to Microsoft Excel for Business Applications	4
BUS245E	Word Processing Using Microsoft Word	4

Select one course from the following:

Credit Hours: (3 Required)

BUS005 or	Human Relations in Business	3
BUS010	Introduction to Business	3

FOURTH SEMESTER

Credit Hours: (3 Required)

BUS020	General Accounting	3
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Recommended:**Credit Hours: (0 Required)**

BUS230D	Beginning Keyboarding	1
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ECON002	Principles of Economics (Micro-Economics)	3
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COMM045	Public Speaking	3
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RLEST002A	Principles of Real Estate	3
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Total: 30

+: ENG 1A or ESL 52A or ESL 52B may be substituted for Bus 201.

***: Math 201 or 210ABCD or a more advanced math course may be substituted for BUS 202.

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ENERGY EFFICIENCY SALES & AUDITING

CERTIFICATE OF PROFICIENCY

Description

The Energy Efficiency Sales and Auditing program prepares students for careers in the rapidly growing residential and light commercial energy efficiency sector. Students will learn building science, how to make the financial case for an investment in energy efficiency, and energy auditing to national Building Performance Institute (BPI) standards. Students will be prepared to take the BPI certification preparation course and test upon completion.

Career Opportunities

Energy efficiency sales, energy management, energy efficiency program administration, energy auditing.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Assess the financial case for an investment in energy efficiency and compose an effective sales pitch.
2. Explain building science principles.
3. Perform energy audits to national Building Performance Institute (BPI) standards.

Degree Requirements:

Core Courses		Credit Hours: (13.5 Required)
E/ET227	Customer Service for the Building Trades	2
ECT028	Energy Management and Efficiency in Building Systems	2
ECT038	Measurement of Building Energy Efficiency	2
ECT039	Energy Auditing and Computer Analysis of Building Efficiency	2
CARP204	The Sustainable Built Environment	3
ECT203	The Financial Case for Clean Energy	2.5
		Total: 13.5

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DNA SEQUENCING WITH NANO-CHIP TECHNOLOGY

CERTIFICATE OF PROFICIENCY

Description

NanoChip DNA sequencers present an emerging technology that is compact, hooking up to a laptop computer and generating long DNA reads in very large throughput. Currently, we are the only community college teaching this method of DNA sequencing, as all others are genome institutes, biotech companies and advanced university research laboratories. This technology is poised to become staple instrumentation in every biological and health field. **A Certificate of Proficiency will be awarded upon completion of the requirements below. The Certificate of Proficiency is not indicated on the student's transcript.**

Career Opportunities

Lab technician; may also lead to a bachelor's degree. This certificate lends itself to performing original research and potentially publishing scientific papers. It is also being used as a bridge program for high schools.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Perform good laboratory practices in a genomics lab
2. Demonstrate basic laboratory skills for genomics
3. Demonstrate mastery of nanopore sequencing

Degree Requirements:

Required Courses:	Credit Hours: (12 Required)
BIOSC030 and Genomics Theory	4
BIOSC031 and Advanced Genomics Theory	4
BIOSC037 and Principles of Long Polymerase Chain Reaction (PCR)	1
BIOSC060 Personalized (Desk-top) Sequencing	3
	Total: 12

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ADVANCED COMPUTER PROGRAMMING

CERTIFICATE OF PROFICIENCY

Description

In this program, students will learn how to write object-oriented programs using Java and C# programming languages. The courses cover the necessary skills for all computer programming career opportunities. This Certificate of Proficiency prepares students for the Certificate of Achievement in Web Programming. Career Opportunities: entry-level computer programmer, web developer

Career Opportunities

Entry-level computer programmer, web developer

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Solve problems using object-oriented decomposition and write programs using C++, Java, and C# programming languages.
 2. Use IDEs to write, compile, debug, and execute programs
 3. Use advanced programming concepts including threads, networking, databases, and graphical user interfaces.
-

Degree Requirements:

Required Courses		Credit Hours: (17 Required)
CIS006	Introduction to Computer Programming	5
CIS023	C# Programming	4
CIS036A	Java Programming Language I	4
CIS036B	Java Programming Language II	4
		Total: 17

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ADVANCED WINDOWS DESKTOP

CERTIFICATE OF PROFICIENCY

Description

Start your career in IT Desktop Administration and be a technical resource at work. This certificate provides the skills you need to master Microsoft Windows operating systems and networking concepts. In this constantly changing field, keep your skills updated to meet the new technology. Whether you are a beginner or long-time user of Windows operating systems, you will learn many useful techniques that will make your computers safe, reliable, and function efficiently.

Career Opportunities

Desktop Support Technician, Help Desk Technician, Entry-Level IT Assistant, Computer Support Specialist, Technical Support Level I

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Understand operating system configuration, install and upgrade desktop operating systems.
 2. Manage applications, files and folders, hardware devices, services, and protocols.
 3. Understand core security principles and threats, install security software, and manage operating system security and network security.
-

Degree Requirements:

Required Courses		Credit Hours: (16 Required)
CIS086	Windows Operating Systems	4
CIS087	Window Server Administration Fundamentals	4
CIS089	Networking Fundamentals	4
CIS090	Security Fundamentals	4
		Total: 16

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APPLIED COMPUTER INFORMATION SYSTEMS

CERTIFICATE OF PROFICIENCY

Description

Develop in-demand computer skills that lead to jobs or increase your productivity and efficiency and prepare for career advancement. Understand computer hardware and software and use computers effectively at work and home. This certificate teaches you the skills you need to be a proficient user of computers and get the most out of commonly used computer applications.

Career Opportunities

Entry-level office jobs

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Demonstrate knowledge of computer terminology and trends in Computer Information Systems.
 2. Demonstrate knowledge of computer hardware and software and use computers effectively at work and home.
 3. Demonstrate proficiency in using office productivity applications for work in entry-level employment.
-

Degree Requirements:

Required Courses

Credit Hours: (12.5 Required)

CIS001	Introduction to Computer Information Systems	4
CIS042A	Spreadsheet Applications I	2
CIS042B	Spreadsheet Applications II	2
CIS231A	Advanced Laboratory Projects in Word	1
CIS245A	Introduction to Microsoft Access I	2
CIS246	Introduction to Powerpoint	1.5

Additional required courses

Credit Hours: (3 Required)

CIS231B and	Advanced Laboratory Projects in Outlook	1
CIS245B	Introduction to Microsoft Access II	2

OR

Credit Hours: (0 Required)

MMART131A and	Photoshop I	2
MMART131LA	Photoshop I Lab	1

OR

Credit Hours: (0 Required)

MMART132A and	Illustrator I	2
MMART132LA	Illustrator I Lab	1

Total: 15.5

FILM, TELEVISION, AND ELECTRONIC MEDIA

AS-T DEGREE

Description

The Multimedia Arts AS-T Degree in Film, Television, and Electronic Media offers a foundation in film theory, sound, and production. The program is interdisciplinary and focuses on developing critical thinking, artistic and technical skills for careers in film and media industries. Students who successfully complete the AS-T in Film, Television, and Electronic Media earn specific guarantees for transfer to the CSU system: admission to a CSU with junior status, and priority admission to their local CSU campus and to a program or major in multimedia art or a similar major. Students transferring to a CSU campus will be required to complete no more than 60 units after transfer to earn a bachelor's degree. Students are required to complete 60 semester units that are eligible for transfer to a California State University, including both of the following: (1) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements and (2) 18 semester units with a grade of C or better in the major and an overall minimum grade point average (GPA) of at least 2.0 in all CSU transferable coursework. Students are advised to consult with a Berkeley City College counselor for additional information and to verify transfer requirements.

Career Opportunities

film & video production, editing, motion graphics, audio recording and sound design, cinematography, documentary production, narrative filmmaking, and film criticism.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Demonstrate entry-level skills in film, television, and electronic media via completed projects.
 2. Evaluate design principles, aesthetic forms, historical context and social relevance of multimedia works.
 3. Collaborate effectively within a diverse team environment
-

Degree Requirements:

Required Courses		Credit Hours: (0 Required)
HUMAN021	Film: Art and Communication	3
MMART110	Scriptwriting and Storyboarding I	3
MMART148A	Sound Recording and Editing	2
MMART148LA	Sound Recording and Editing Lab	1
List A: Select 3 units from the following		Credit Hours: (0 Required)
MMART141A	Video Production I	3
MMART141B	Video Production II: Directing & Producing	3
List B: Select 3 units from the following		Credit Hours: (0 Required)
MMART142	Visual Storytelling & Cinematography	3
MMART150A	Video Editing I	2
MMART150LA	Video Editing I Lab	1
MMART150B	Video Editing II	2
MMART150LB	Video Editing II Lab	1

MMART150C	Video Editing III	2
MMART150LC	Video Editing III Lab	1

List C: Select 3 units from the following or any 3-unit course not used from List A or B

Credit Hours: (0 Required)

MMART123	The Documentary Tradition	3
MMART152A	Motion Graphics/After Effects I	2
MMART152LA	Motion Graphics/After Effects I Lab	1

Unit Calculation

Credit Hours: (60 Required)

Major Requirements	18
General Education and Electives	42

Total: 60

IMAGING (PHOTOGRAPHY & PRINTMAKING)

CERTIFICATE OF ACHIEVEMENT

Description

There are two Multimedia Arts Certificates of Achievement in Imaging, one in Photography and Printmaking, and another in Information Graphics and Digital Design. The Certificate of Achievement in Imaging (Photography & Printmaking) provides skills in photography, studio production, professional image editing, various print media, design aesthetics, and professional imaging presentation skills. If you wish to earn a certificate, you must participate in the Student Success Program (Matriculation), which includes assessing academic skills and developing a Student Education Plan (SEP) with a counselor. This plan will map your sequence of courses to help you complete your certificate regardless of the semester you begin classes.

Career Opportunities

studio photography, pre-processing, digital marketing, digital design, advertising, pre-press and press production, and independent printmaking.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Create a suite of related photographic prints in a studio environment.
 2. Generate a portfolio of photographic or other print-related images and learn a critique method for iterative design.
 3. Express professional identity with project presentation skills.
-

Degree Requirements:

Required Courses		Credit Hours: (18 Required)
MMART131A	Photoshop I	2
MMART131LA	Photoshop I Lab	1
MMART132A	Illustrator I	2
MMART132LA	Illustrator I Lab	1
MMART133A	Digital Photography I	2
MMART133LA	Digital Photography I Lab	1
MMART134A	Digital Printmaking I	2
MMART134LA	Digital Printmaking I Lab	1
MMART135A	Advanced Practices for Digital Printmaking I	2
MMART135LA	Advanced Practices for Digital Printmaking I Lab	1
MMART137A	Applications of Large Scale Print I	2
MMART137LA	Applications of Large Scale Print I Lab	1

Total: 18

MULTIMEDIA ARTS CORE

CERTIFICATE OF ACHIEVEMENT

Description

The Multimedia Arts Core Certificate of Achievement offers a foundation of multimedia techniques and theory and prepares students for further coursework and specialization in the strand of their choice. If you wish to earn a certificate, you must participate in the Student Success Program (Matriculation), which includes assessing academic skills and developing a Student Education Plan (SEP) with a counselor. This plan will map your sequence of courses to help you complete your certificate regardless of the semester you begin classes.

Career Opportunities

entry level positions in video production, web design, digital imaging, animation and game design, corporate and independent media organization.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Demonstrate entry level skills in Multimedia Arts through the completion of individual and team projects
 2. Collaborate within a diverse team environment.
-

Degree Requirements:

Required Courses	Credit Hours: (18 Required)
MMART110 Scriptwriting and Storyboarding I	3
MMART130 Introduction to Digital Art	2
MMART130L Introduction to Digital Art Lab	1
MMART141A Video Production I	3
MMART164 Introduction to Web Design	2
MMART164L Introduction to Web Design Lab	1
MMART165 Fundamentals of Graphic Visualization	2
MMART165L or Fundamentals of Graphic Visualization Lab	1
ART046 2-D Visual Design	3
MMART199 Multimedia Special Projects	3

Total: 18

VIDEO ARTS LEVEL II

CERTIFICATE OF ACHIEVEMENT

Description

The Multimedia Arts Certificates of Achievement in Video Arts are available at Level I and Level II. The Level II Certificate of Achievement in Video Arts provides advanced training in video production and post-production, as well as further development for working students seeking to gain advantageous technical knowledge. The program provides technical training on professional production equipment and post production software. The program emphasizes effective collaboration, aesthetics, critical analysis of media, color correction, visual effects and finalizing techniques. If you wish to earn a certificate, you must participate in the Student Success Program (Matriculation), which includes assessing academic skills and developing a Student Education Plan (SEP) with a counselor. This plan will map your sequence of courses to help you complete your certificate regardless of the semester you begin classes.

Career Opportunities

post-production, motion graphics, visual effects, audio recording and mixing, sound design, and video production at corporate and independent media organizations.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Demonstrate advanced technical post-production knowledge and aesthetic quality of a project.
 2. Apply technical knowledge and collaborative communication skills in a professional setting.
-

Degree Requirements:

Required Courses		Credit Hours: (12 Required)
MMART131A	Photoshop I	2
MMART131LA	Photoshop I Lab	1
MMART148B	Sound for Film & Animation	2
MMART148LB	Sound for Film & Animation Lab	1
MMART150D	Video Editing IV	2
MMART150LD	Final Cut Pro IV Lab	1
MMART152A	Motion Graphics/After Effects I	2
MMART152LA	Motion Graphics/After Effects I Lab	1
Select 6 units from the following:		Credit Hours: (6 Required)
MMART152B	Motion Graphics / After Effects II	2
MMART152LB	Motion Graphics/After Effects II Lab	1
MMART156	Documentary Production Intensive	3
MMART185A	3-D Illustration / Cinema 4D I	2
MMART185LA	3-D Illustration / Cinema 4D I Lab	1
MMART185B	3-D Illustration / Cinema 4D II	2
MMART185LB	3-D Illustration / Cinema 4D II Lab	1

Total: 18

WEB PROGRAMMING

CERTIFICATE OF PROFICIENCY

Description

Make your web pages interactive and dynamic. Learn the client-side scripting languages and programming skills needed to be a Web Developer or Software Programmer for the web. This Certificate of Proficiency prepares you for the Certificate of Achievement in Web Programming. You should have a solid computer literacy background as evidenced by course work such as CIS 1, CIS 5, or CIS 42A/B or the equivalents.

Career Opportunities

Web-Developer, Front-End Developer, HTML Developer

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Apply the fundamentals of programming.
 2. Use HTML5, CSS, and JavaScript for front-end web development
-

Degree Requirements:

Required Courses		Credit Hours: (16 Required)
CIS006	Introduction to Computer Programming	5
CIS084	Database Programming for the Web	4
CIS103	Survey of Program/Languages for the Web--Continuation	4
CIS104	Survey of Programming Languages for the Web	3
		Total: 16

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WRITING, DIRECTING, AND PRODUCING FOR MULTIMEDIA ARTS

CERTIFICATE OF ACHIEVEMENT

Description

The certificate of Writing, Directing, and Producing for Multimedia Arts provides analytical and professional writing techniques and an overview of fundraising, screenplays, critiques and social media which can be applied to directing and producing. If you wish to earn a certificate, you must participate in the Student Success Program Matriculation), which includes assessing academic skills and developing a Student Education Plan (SEP) with a counselor. This plan will map your sequence of courses to help you complete your certificate regardless of the semester you begin classes.

Career Opportunities

documentary production, screenwriting, producing for film or television, grant writing, fundraising, and writing for social media.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Demonstrate entry level skills in writing, directing & producing through the completion of individual and team projects
 2. Collaborate within a diverse team environment.
-

Degree Requirements:

Required Courses

Credit Hours: (9 Required)

MMART109	Writing for the Business of Multimedia	3
MMART113	Social Media Reporting	3
MMART141B	Video Production II:Directing & Producing	3

Select 9-12 units from the following:

Credit Hours: (9 - 12 Required)

HUMAN021	Film: Art and Communication	3
MMART110	Scriptwriting and Storyboarding I	3
MMART111A	Narrative Scriptwriting I	3
MMART120	Media and Communications	3
MMART122B	From Movies to Multimedia	3
MMART123	The Documentary Tradition	3
MMART142	Visual Storytelling & Cinematography	3
MMART156	Documentary Production Intensive	3
MMART169	Social & Emergent Media	2
MMART169L	Social & Emergent Media Lab	1
MMART195A	Special Project: Digital Arts Festival Organization	3

Total: 18.00 - 21.00
