

Academic and Career Paths



Academic and Career Paths

All academic and career paths offered at Santa Monica College are designed to provide students with the necessary skills to compete successfully in related job markets and/or for transfer to a four-year college or university. Each career path has an advisory board composed of industry representatives to insure that the curricula are current and that they meet industry needs and standards.

Requirements for Associate and other degrees, Certificates of Achievement, Department Certificates, and Certificates of Completion (Noncredit), as well as requirements and recommendations for transfer preparation, are available through General Counseling & Transfer Services (smc.edu/counseling). Many of these degrees and certificates can now be earned online. See smc.edu/online for details.

Students should note that completion of degree and/or certificate requirements may not adequately satisfy transfer requirements. Students are **STRONGLY** encouraged to meet with a counselor to develop an academic program best suited for their transfer institution and intended academic path.

To explore career possibilities, students should visit the Career Services Center webpage (smc.edu/careercenter).

DEGREE AND CERTIFICATE REQUIREMENTS

General requirements for degrees and certificates can be found starting on page 33.

CATALOG RIGHTS

A student may satisfy the requirements of a degree or certificate that were in effect at any time of the student's continuous enrollment. Continuous enrollment means attendance in at least one semester (fall or spring) in each academic year.

CURRICULAR OFFERINGS

See the following charts with SMC's Areas of Interest and Academic and Career Paths. This can also be found online at smc.edu/academics for easier and up-to-date access.

AREAS OF INTEREST

The Areas of Interest chart is a starting point to help students understand the broad categories of the many degrees and certificates SMC offers. Additional details available at smc.edu/aoi.



Arts, Media, and Entertainment

- 2D Animation
- 3D Animation
- 3D Production
- Animation
- Animation Foundation
- Architecture
- Architecture and Interior Design Digital Production
- Art
- Broadcast Programming and Production
- Broadcast Sales and Management
- Cosmetology
- Dance
- Digital Audio Post-Production
- Digital Media
- Digital Media Foundation
- Digital Publishing
- Digital Video Post-Production
- Entertainment Promotion and Marketing Production
- Esthetician
- Fashion Design
- Film Production
- Film Studies
- Graphic Design
- Interaction Design Bachelor Degree
- Interior Architectural Design
- Interior Architectural Design Fundamentals
- Journalism
- Journalism – Multimedia Storytelling
- Media Studies
- Music
- Nail Care
- Photography
- Scenic Design and Construction
- Stage, Lighting, Sound, and Projection
- Studio Arts
- Technical Theatre
- Theatre
- Theatre Arts
- Visual Development
- Website Creator
- Website Development Management
- Website Software Specialist



Business

- Accounting
- Bicycle Maintenance – Noncredit
- Business
- Business Administration
- Business Bookkeeping
- Business Essentials Level 1 – Noncredit
- Business Information Worker 1
- Business Information Worker 2
- Clerical/Data Entry
- Computer Business Applications
- CPA Track
- Customer Service – Noncredit
- Entrepreneurship
- Entry Level Business Information Assistant
- Fashion Merchandising
- General Office
- Insurance Professional
- Insurance Specialist
- International Business
- Legal Administrative Assistant
- Legal Office Clerk
- Logistics and Supply Chain Management
- Management/Leadership
- Marketing
- Receptionist – Noncredit
- Sales and Promotion
- Salon Business
- Small Business Tax Practice
- Social Media Assistant
- Staff Accountant



Culture, History, and Languages

- Advanced English as a Second Language – Noncredit
- African and Middle Eastern Studies
- Art History
- Asian Studies
- Beginning English as a Second Language – Noncredit
- English
- ESL for College and Career Pathways – Noncredit
- Ethnic Studies
- History
- Intermediate English as a Second Language – Noncredit
- Latin American Studies
- Liberal Arts – Arts and Humanities
- Linguistics
- Low Advanced ESL – Noncredit
- Low Intermediate ESL – Noncredit
- Modern Languages
- Philosophy
- Spanish

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Education

- Child and Adolescent Development
- Early Childhood Associate Teacher
- Early Childhood Education
- Early Childhood Studies
- Early Intervention/Special Education Assistant
- Education
- General Education
- Infant/Toddler Teacher
- Introduction to Early Care and Education – Noncredit
- Nature-based Pedagogy
- Transition to College and Career – Noncredit
- Transitional Kindergarten



Health and Wellness

- Athletic Coaching
- Electronic Medical Records Clerk
- Hospital Inpatient Coder
- Introduction to Working with Older Adults – Noncredit
- Kinesiology/Physical Education
- Medical Administrative Assistant
- Medical Billing/Coding
- Medical Coding and Billing Specialist
- Medical Office Clerk
- Medical Records Clerk/Receptionist
- Medical Transcription
- Nutrition and Dietetics
- Registered Nurse (ADN)
- Rehabilitation Therapy Aide – Noncredit
- Respiratory Care



People and Society

- Administration of Justice (Criminal Justice)
- Anthropology
- Communication Studies
- Cultural Resource Management
- Economics
- Environmental Studies
- Geography
- Global Studies
- Liberal Arts – Social and Behavioral Science
- Political Science
- Psychology
- Public Policy
- Social Justice Studies, Gender Studies
- Sociology
- Women's, Gender, and Sexuality Studies



STEM (Science, Technology, Engineering, and Math)

- Astronomy
- Automotive Technician – Introductory
- Basic Solar Photovoltaic Installation
- Biological Sciences
- Chemistry
- Cloud Computing
- Computer Programming
- Computer Science
- Cybersecurity
- Database Applications Developer
- Energy Efficiency Specialist
- Engineering
- Entry Level Programmer
- Environmental Science
- General Science
- Geographic Information Systems (GIS)
- Geology
- Geospatial Technology
- Information Systems Management
- Introduction to Engineering
- Mathematics
- Microsoft Azure
- Mobile Apps Development – Android
- Mobile Apps Development – iPhone
- Networking
- Physics
- Recycling and Resource Management
- Recycling and Zero Waste
- Solar Photovoltaic and Energy Efficiency
- Solar Photovoltaic Installation
- Sustainability Assistant – Noncredit
- Sustainability in Organics Aide – Noncredit
- Sustainability Services Technician – Noncredit
- Web Developer

ACADEMIC AND CAREER PATHS

AREA(S) OF INTEREST	DISCIPLINE	ACADEMIC AND CAREER PATHS: Transfer Preparation, Degrees, and Certificates Offered (NOTE: Associate degrees require a minimum of 60 units)	PRIMARY ACADEMIC DEPARTMENT(S)
Business	Accounting	<ul style="list-style-type: none"> • Transfer Preparation • Accounting Associate Degree • CPA Track (<i>formerly Professional Accountant</i>) Certificate of Achievement (24 units) • Small Business Tax Practice Certificate of Achievement (17 units) • Staff Accountant (<i>formerly General Accountant</i>) Certificate of Achievement (16 units) • Business Bookkeeping (<i>formerly Computer Accounting</i>) Department Certificate (12 units) • <i>See also Business</i> 	<ul style="list-style-type: none"> • Business
People and Society	Administration of Justice	<ul style="list-style-type: none"> • Transfer Preparation • Administration of Justice Associate Degree for Transfer 	<ul style="list-style-type: none"> • Business
Culture, History, and Languages	African and Middle Eastern Studies	<ul style="list-style-type: none"> • African and Middle Eastern Studies Certificate of Achievement (16 units) • <i>See also Modern Languages</i> 	<ul style="list-style-type: none"> • Modern Languages and Cultures
Culture, History, and Languages	American Sign Language	<i>See Modern Languages</i>	<ul style="list-style-type: none"> • Modern Languages and Cultures
STEM (Science, Technology, Engineering, and Math)	Anatomy	<i>See Biological Sciences</i>	<ul style="list-style-type: none"> • Life Sciences
Arts, Media, and Entertainment	Animation	<ul style="list-style-type: none"> • Transfer Preparation • Animation Associate Degree • 2D Animation Certificate of Achievement (18 units) • 3D Animation Certificate of Achievement (17 units) • 3D Production Certificate of Achievement (17 units) • Animation Foundation Certificate of Achievement (15 units) • Visual Development Certificate of Achievement (18 units) 	<ul style="list-style-type: none"> • Design Technology
People and Society	Anthropology	<ul style="list-style-type: none"> • Transfer Preparation • Anthropology Associate Degree for Transfer • Cultural Resource Management Certificate of Achievement (9 units) 	<ul style="list-style-type: none"> • Earth Sciences
Culture, History, and Languages	Arabic	<i>See Modern Languages</i>	<ul style="list-style-type: none"> • Modern Languages and Cultures
Arts, Media, and Entertainment	Architecture	<ul style="list-style-type: none"> • Transfer Preparation • Architecture Associate Degree • Architecture Certificate of Achievement (31 units) • Architecture and Interior Design Digital Production Certificate of Achievement (16 units) • <i>See also Interior Architectural Design</i> 	<ul style="list-style-type: none"> • Design Technology
Arts, Media, and Entertainment	Art	<ul style="list-style-type: none"> • Transfer Preparation • Studio Arts Associate Degree for Transfer • Art Associate Degree • <i>See also Art History</i> 	<ul style="list-style-type: none"> • Art
Culture, History, and Languages	Art History	<ul style="list-style-type: none"> • Transfer Preparation • Art History Associate Degree for Transfer 	<ul style="list-style-type: none"> • Art
Culture, History, and Languages	Asian Studies	<ul style="list-style-type: none"> • Asian Studies Certificate of Achievement (16 units) • <i>See also Modern Languages</i> 	<ul style="list-style-type: none"> • Modern Languages and Cultures
STEM (Science, Technology, Engineering, and Math)	Astronomy	<ul style="list-style-type: none"> • Transfer Preparation • <i>See also Physics</i> • <i>See also Science: General Science</i> 	<ul style="list-style-type: none"> • Earth Sciences
Health and Wellness	Athletic Coaching	<ul style="list-style-type: none"> • Athletic Coaching Associate Degree • Athletic Coaching Certificate of Achievement (24 units) • <i>See Kinesiology/Physical Education</i> 	<ul style="list-style-type: none"> • Kinesiology

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AREA(S) OF INTEREST	DISCIPLINE	ACADEMIC AND CAREER PATHS: Transfer Preparation, Degrees, and Certificates Offered (NOTE: Associate degrees require a minimum of 60 units)	PRIMARY ACADEMIC DEPARTMENT(S)
STEM (Science, Technology, Engineering, and Math)	Automotive Technology	<ul style="list-style-type: none"> • Transfer Preparation • Automotive Technician – Introductory Department Certificate (12 units) 	<ul style="list-style-type: none"> • Business
Business	Bicycle Maintenance – Noncredit	<ul style="list-style-type: none"> • Bicycle Maintenance Certificate of Completion (Noncredit) 	<ul style="list-style-type: none"> • Business
STEM (Science, Technology, Engineering, and Math)	Biological Sciences	<ul style="list-style-type: none"> • Transfer Preparation • <i>See also Environmental Science</i> • <i>See also Science: General Science</i> 	<ul style="list-style-type: none"> • Life Sciences
STEM (Science, Technology, Engineering, and Math)	Biology	<i>See Biological Sciences</i>	<ul style="list-style-type: none"> • Life Sciences
STEM (Science, Technology, Engineering, and Math)	Botany	<i>See Biological Sciences</i>	<ul style="list-style-type: none"> • Life Sciences
Arts, Media, and Entertainment	Broadcasting	<i>See Media Studies</i>	<ul style="list-style-type: none"> • Communication and Media Studies
Business	Business	<ul style="list-style-type: none"> • Transfer Preparation • Business <ul style="list-style-type: none"> – Business Administration Associate Degree for Transfer – Business Associate Degree – Entry Level Business Information Assistant Certificate of Achievement (12 units) • Entrepreneurship <ul style="list-style-type: none"> – Entrepreneurship Certificate of Achievement (18 units) – Salon Business (<i>see Cosmetology</i>) • Insurance <ul style="list-style-type: none"> – Insurance Professional Associate Degree – Insurance Professional Certificate of Achievement (26 units) – Insurance Specialist Certificate of Achievement (11 units) • International <ul style="list-style-type: none"> – International Business Certificate of Achievement (18 units) • Logistics <ul style="list-style-type: none"> – Logistics and Supply Chain Management Associate Degree – Logistics and Supply Chain Management Certificate of Achievement (24 units) • Management <ul style="list-style-type: none"> – Management/Leadership Associate Degree – Management/Leadership Certificate of Achievement (24 units) • Marketing <ul style="list-style-type: none"> – Marketing Certificate of Achievement (18 units) • Sales and Promotion <ul style="list-style-type: none"> – Sales and Promotion (<i>formerly Merchandising</i>) Associate Degree – Sales and Promotion (<i>formerly Merchandising</i>) Certificate of Achievement (24 units) 	<ul style="list-style-type: none"> • Business
Business	Business – Noncredit	<ul style="list-style-type: none"> • Business Essentials Level 1 Certificate of Completion (Noncredit) • Customer Service Certificate of Completion (Noncredit) 	<ul style="list-style-type: none"> • Business
STEM (Science, Technology, Engineering, and Math)	Chemistry	<ul style="list-style-type: none"> • Transfer Preparation • <i>See also Science: General Science</i> 	<ul style="list-style-type: none"> • Physical Sciences
Culture, History, and Languages	Chinese	<i>See Modern Languages</i>	<ul style="list-style-type: none"> • Modern Languages and Cultures

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AREA(S) OF INTEREST	DISCIPLINE	ACADEMIC AND CAREER PATHS: Transfer Preparation, Degrees, and Certificates Offered (NOTE: Associate degrees require a minimum of 60 units)	PRIMARY ACADEMIC DEPARTMENT(S)
Arts, Media, and Entertainment	Communication Studies	<ul style="list-style-type: none"> • Transfer Preparation • Communication Studies Associate Degree for Transfer • <i>See also Journalism</i> • <i>See also Media Studies</i> 	<ul style="list-style-type: none"> • Communication and Media Studies
Arts, Media, and Entertainment AND Business AND STEM (Science, Technology, Engineering, and Math)	Computer Information Systems	<ul style="list-style-type: none"> • Transfer Preparation • Business Information Worker 2 Associate Degree • Computer Business Applications Associate Degree • Website Software Specialist Associate Degree • Business Information Worker 1 Certificate of Achievement (21 units) • Business Information Worker 2 Certificate of Achievement (18 units) • Computer Business Applications Certificate of Achievement (30 units) • Social Media Assistant Certificate of Achievement (15 units) • Website Software Specialist Certificate of Achievement (31 units) • Digital Publishing Certificate of Achievement (20 units) • Website Creator Certificate of Achievement (15 units) • Web Development Management Department Certificate (13 units) 	<ul style="list-style-type: none"> • Computer Science and Information Systems (CSIS)
Business	Computer Information Systems – Noncredit	<ul style="list-style-type: none"> • Receptionist Certificate of Completion (Noncredit) 	<ul style="list-style-type: none"> • Computer Science and Information Systems (CSIS)
STEM (Science, Technology, Engineering, and Math)	Computer Science	<ul style="list-style-type: none"> • Transfer Preparation • Cloud Computing Associate Degree • Computer Programming Associate Degree • Computer Science Associate Degree • Database Applications Developer Associate Degree • Web Developer Associate Degree • Cloud Computing Certificate of Achievement (27 units) • Computer Programming Certificate of Achievement (27 units) • Computer Science Certificate of Achievement (23 units) • Database Applications Developer Certificate of Achievement (27 units) • Information Systems Management Certificate of Achievement (13 units) • Mobile Apps Development – Android Certificate of Achievement (15 units) • Mobile Apps Development – iPhone Certificate of Achievement (12 units) • Networking Certificate of Achievement (17 units) • Web Developer Certificate of Achievement (30 units) • Cloud Computing Department Certificate (15 units) • Cybersecurity Department Certificate (12 units) • Entry Level Programmer Department Certificate (12 units) • Microsoft Azure Department Certificate (9 units) 	<ul style="list-style-type: none"> • Computer Science and Information Systems (CSIS)
Arts, Media, and Entertainment AND Business	Cosmetology	<ul style="list-style-type: none"> • Cosmetology Associate Degree • Cosmetology Certificate of Achievement (25.5 units) • Esthetician Certificate of Achievement (13 units) • Nail Care Certificate of Achievement (9 units) • Salon Business Department Certificate (11 units) 	<ul style="list-style-type: none"> • Cosmetology
	Counseling		<ul style="list-style-type: none"> • Counseling
Education	Counseling – Noncredit	<ul style="list-style-type: none"> • Transition to College and Career Certificate of Completion (Noncredit) 	<ul style="list-style-type: none"> • Counseling

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AREA(S) OF INTEREST	DISCIPLINE	ACADEMIC AND CAREER PATHS: Transfer Preparation, Degrees, and Certificates Offered (NOTE: Associate degrees require a minimum of 60 units)	PRIMARY ACADEMIC DEPARTMENT(S)
	Counseling – Disabled Student Services		• Counseling – DSPS
	Counseling –Disabled Student Services – Noncredit		• Counseling – DSPS
Arts, Media, and Entertainment	Dance	<ul style="list-style-type: none"> • Transfer Preparation • Dance Associate Degree 	• Dance
Arts, Media, and Entertainment	Digital Media Post-Production	<ul style="list-style-type: none"> • Transfer Preparation • Digital Media Associate Degree • Digital Audio Post-Production Certificate of Achievement (18 units) • Digital Media Foundation Certificate of Achievement (18 units) • Digital Video Post-Production Certificate of Achievement (18 units) 	• Design Technology
Education	Early Childhood Education	<ul style="list-style-type: none"> • Transfer Preparation • Child and Adolescent Development Associate Degree for Transfer • Early Childhood Education Associate Degree for Transfer • Early Childhood Studies Associate Degree • Early Intervention/Special Education Assistant Associate Degree • Infant/Toddler Teacher Associate Degree • Early Childhood Associate Teacher Certificate of Achievement (12 units) • Early Childhood Studies Certificate of Achievement (30 units) • Early Intervention/Special Education Assistant Certificate of Achievement (33 units) • Infant/Toddler Teacher Certificate of Achievement (30 units) • Nature-based Pedagogy Certificate of Achievement (22 units) • Transitional Kindergarten Certificate of Achievement (24 units) 	• Education and Early Childhood
Education	Early Childhood Education – Noncredit	<ul style="list-style-type: none"> • Introduction to Early Care and Education Certificate of Completion (Noncredit) 	• Education and Early Childhood
People and Society	Economics	<ul style="list-style-type: none"> • Transfer Preparation • Economics Associate Degree for Transfer 	• Philosophy and Social Sciences
Education	Education	<ul style="list-style-type: none"> • Transfer Preparation 	• Education and Early Childhood
STEM (Science, Technology, Engineering, and Math)	Energy Efficiency	<ul style="list-style-type: none"> • Energy Efficiency Specialist Department Certificate (13 units) • <i>See also Photovoltaic Installation</i> 	• Earth Sciences
STEM (Science, Technology, Engineering, and Math)	Engineering	<ul style="list-style-type: none"> • Transfer Preparation • Engineering Associate Degree • Engineering Certificate of Achievement (31 units) • Introduction to Engineering Certificate of Achievement (15 units) 	• Physical Sciences
Culture, History, and Languages	English	<ul style="list-style-type: none"> • Transfer Preparation • <i>See also Liberal Arts – Arts and Humanities</i> 	• English
Culture, History, and Languages	English – Noncredit		• English
	ESL – English as a Second Language		• ESL

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AREA(S) OF INTEREST	DISCIPLINE	ACADEMIC AND CAREER PATHS: Transfer Preparation, Degrees, and Certificates Offered (NOTE: Associate degrees require a minimum of 60 units)	PRIMARY ACADEMIC DEPARTMENT(S)
Culture, History, and Languages	ESL – Noncredit	<ul style="list-style-type: none"> Beginning English as a Second Language Certificate of Competency (Noncredit) Low Intermediate ESL Certificate of Competency (Noncredit) Intermediate English as a Second Language Certificate of Competency (Noncredit) Low Advanced ESL Certificate of Competency (Noncredit) Advanced English as a Second Language Certificate of Competency (Noncredit) ESL for College and Career Pathways Certificate of Competency (Noncredit) 	<ul style="list-style-type: none"> ESL
Arts, Media, and Entertainment	Entertainment Technology	<i>See Animation</i> <i>See Digital Media Post-Production</i>	<ul style="list-style-type: none"> Design Technology
STEM (Science, Technology, Engineering, and Math)	Environmental Science	<ul style="list-style-type: none"> Transfer Preparation Environmental Science Associate Degree Environmental Science Certificate of Achievement (40 units) 	<ul style="list-style-type: none"> Life Sciences Interdepartmental
People and Society	Environmental Studies	<ul style="list-style-type: none"> Transfer Preparation Environmental Studies Associate Degree Environmental Studies Certificate of Achievement (24 units) 	<ul style="list-style-type: none"> Earth Sciences Philosophy and Social Sciences Interdepartmental
Culture, History, and Languages	Ethnic Studies	<ul style="list-style-type: none"> Transfer Preparation Ethnic Studies Associate Degree Ethnic Studies Certificate of Achievement (21 units) 	<ul style="list-style-type: none"> English History Philosophy and Social Sciences Interdepartmental
Arts, Media, and Entertainment AND Business	Fashion Design and Merchandising	<ul style="list-style-type: none"> Transfer Preparation Fashion Design Associate Degree Fashion Merchandising Associate Degree Fashion Design Certificate of Achievement (40 units) Fashion Merchandising Certificate of Achievement (40 units) 	<ul style="list-style-type: none"> Photography and Fashion
Arts, Media, and Entertainment	Film Production	<ul style="list-style-type: none"> Film Production Associate Degree Film Production Certificate of Achievement (30-33 units) 	<ul style="list-style-type: none"> Communication and Media Studies
Arts, Media, and Entertainment	Film Studies	<ul style="list-style-type: none"> Transfer Preparation Film Studies Associate Degree 	<ul style="list-style-type: none"> Communication and Media Studies
Health and Wellness	First Aid		<ul style="list-style-type: none"> Kinesiology
Culture, History, and Languages	French	<i>See Modern Languages</i>	<ul style="list-style-type: none"> Modern Languages and Cultures
	General Education	<ul style="list-style-type: none"> Transfer Preparation CSU GE Certificate of Achievement IGETC Certificate of Achievement 	<ul style="list-style-type: none"> Counseling
STEM (Science, Technology, Engineering, and Math)	General Science	<i>See Science</i>	<ul style="list-style-type: none"> Earth Sciences Life Sciences Physical Sciences Interdepartmental
STEM (Science, Technology, Engineering, and Math)	Geographic Information Systems (GIS)	<ul style="list-style-type: none"> Transfer Preparation Geospatial Technology Department Certificate (15 units) 	<ul style="list-style-type: none"> Earth Sciences
People and Society	Geography	<ul style="list-style-type: none"> Transfer Preparation Geography Associate Degree for Transfer 	<ul style="list-style-type: none"> Earth Sciences
STEM (Science, Technology, Engineering, and Math)	Geology	<ul style="list-style-type: none"> Transfer Preparation <i>See also Science – General Science</i> 	<ul style="list-style-type: none"> Earth Sciences

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AREA(S) OF INTEREST	DISCIPLINE	ACADEMIC AND CAREER PATHS: Transfer Preparation, Degrees, and Certificates Offered (NOTE: Associate degrees require a minimum of 60 units)	PRIMARY ACADEMIC DEPARTMENT(S)
Culture, History, and Languages	German	<i>See Modern Languages</i>	<ul style="list-style-type: none"> • Modern Languages and Cultures
People and Society	Global Studies	<ul style="list-style-type: none"> • Transfer Preparation • Global Studies Associate Degree • Global Studies Certificate of Achievement (21 units) 	<ul style="list-style-type: none"> • Earth Sciences • Philosophy and Social Sciences • Interdepartmental
Arts, Media, and Entertainment	Graphic Design	<ul style="list-style-type: none"> • Transfer Preparation • Graphic Design Associate Degree • Graphic Design Certificate of Achievement (40 units) • <i>See also Interaction Design</i> 	<ul style="list-style-type: none"> • Design Technology
Health and Wellness	Health Education	<i>See Kinesiology/Physical Education, Nursing, Occupational Therapy, Respiratory Care</i>	<ul style="list-style-type: none"> • Kinesiology/Physical Education • Health Sciences
Health and Wellness	Health Education – Noncredit	<ul style="list-style-type: none"> • Introduction to Working with Older Adults Certificate of Completion (Noncredit) • Rehabilitation Therapy Aide Certificate of Completion (Noncredit) 	<ul style="list-style-type: none"> • Kinesiology • Health Sciences
Culture, History, and Languages	Hebrew	<i>See Modern Languages</i>	<ul style="list-style-type: none"> • Modern Languages and Cultures
Culture, History, and Languages	History	<ul style="list-style-type: none"> • Transfer Preparation • History Associate Degree for Transfer • <i>See also Liberal Arts – Social and Behavioral Science</i> 	<ul style="list-style-type: none"> • History
	Humanities		<ul style="list-style-type: none"> • English
Arts, Media, and Entertainment	Interaction Design	<ul style="list-style-type: none"> • Interaction Design Bachelor Degree • <i>See also Graphic Design</i> 	<ul style="list-style-type: none"> • Design Technology
Arts, Media, and Entertainment	Interior Architectural Design	<ul style="list-style-type: none"> • Transfer Preparation • Interior Architectural Design Associate Degree • Interior Architectural Design Certificate of Achievement (40 units) • Interior Architectural Design Fundamentals Certificate of Achievement (18 units) • <i>See also Architecture</i> 	<ul style="list-style-type: none"> • Design Technology
Culture, History, and Languages	Italian	<i>See Modern Languages</i>	<ul style="list-style-type: none"> • Modern Languages and Cultures
Culture, History, and Languages	Japanese	<i>See Modern Languages</i>	<ul style="list-style-type: none"> • Modern Languages and Cultures
Arts, Media, and Entertainment	Journalism	<ul style="list-style-type: none"> • Transfer Preparation • Journalism Associate Degree for Transfer • Journalism – Multimedia Storytelling Associate Degree • <i>See also Communication Studies</i> • <i>See also Media Studies</i> 	<ul style="list-style-type: none"> • Communication and Media Studies
Health and Wellness	Kinesiology/Physical Education	<ul style="list-style-type: none"> • Transfer Preparation • Kinesiology Associate Degree for Transfer • Athletic Coaching Associate Degree • Athletic Coaching Certificate of Achievement (24 units) 	<ul style="list-style-type: none"> • Kinesiology
Culture, History, and Languages	Korean	<i>See Modern Languages</i>	<ul style="list-style-type: none"> • Modern Languages and Cultures
Culture, History, and Languages	Latin American Studies	<ul style="list-style-type: none"> • Latin American Studies Certificate of Achievement (16 units) • <i>See also Modern Languages</i> 	<ul style="list-style-type: none"> • Modern Languages and Cultures
Culture, History, and Languages AND People and Society	Liberal Arts	<ul style="list-style-type: none"> • Transfer Preparation • Liberal Arts – Arts and Humanities Associate Degree • Liberal Arts – Social and Behavioral Science Associate Degree 	<ul style="list-style-type: none"> • Interdepartmental
	Library Studies		<ul style="list-style-type: none"> • Library

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AREA(S) OF INTEREST	DISCIPLINE	ACADEMIC AND CAREER PATHS: Transfer Preparation, Degrees, and Certificates Offered (NOTE: Associate degrees require a minimum of 60 units)	PRIMARY ACADEMIC DEPARTMENT(S)
Culture, History, and Languages	Linguistics	<ul style="list-style-type: none"> • Transfer Preparation • <i>See also Modern Languages</i> 	<ul style="list-style-type: none"> • Modern Languages and Cultures
STEM (Science, Technology, Engineering, and Math)	Mathematics	<ul style="list-style-type: none"> • Transfer Preparation • Mathematics Associate Degree for Transfer 	<ul style="list-style-type: none"> • Mathematics
Arts, Media, and Entertainment	Media Studies	<ul style="list-style-type: none"> • Transfer Preparation • Broadcast Programming and Production Associate Degree • Broadcast Sales and Management Associate Degree • Entertainment Promotion and Marketing Production Associate Degree • Broadcast Programming and Production Certificate of Achievement (20 units) • Broadcast Sales and Management Certificate of Achievement (21 units) • Entertainment Promotion and Marketing Production Certificate of Achievement (24 units) • <i>See also Communication Studies</i> • <i>See also Journalism</i> 	<ul style="list-style-type: none"> • Communication and Media Studies
STEM (Science, Technology, Engineering, and Math)	Microbiology	<i>See Biological Sciences</i>	<ul style="list-style-type: none"> • Life Sciences
Culture, History, and Languages	Modern Language courses offered in: <ul style="list-style-type: none"> • American Sign Language • Arabic • Chinese • French • German • Hebrew • Italian • Japanese • Korean • Persian • Portuguese • Russian • Spanish • Turkish 	<ul style="list-style-type: none"> • Transfer Preparation • Spanish Associate Degree for Transfer • African and Middle Eastern Studies Certificate of Achievement (16 units) • Asian Studies Certificate of Achievement (16 units) • Latin American Studies Certificate of Achievement (16 units) • <i>See also Spanish</i> 	<ul style="list-style-type: none"> • Modern Languages and Cultures
Arts, Media, and Entertainment	Music	<ul style="list-style-type: none"> • Transfer Preparation • Music Associate Degree 	<ul style="list-style-type: none"> • Music
Health and Wellness	Nursing – Registered Nurse	<ul style="list-style-type: none"> • Transfer Preparation • Nursing (ADN) Associate Degree 	<ul style="list-style-type: none"> • Health Sciences
Health and Wellness	Nursing – Noncredit		<ul style="list-style-type: none"> • Health Sciences
Health and Wellness	Nutrition and Dietetics	<ul style="list-style-type: none"> • Transfer Preparation • Nutrition and Dietetics Associate Degree for Transfer 	<ul style="list-style-type: none"> • Life Sciences
	Occupational Therapy		<ul style="list-style-type: none"> • Health Sciences

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AREA(S) OF INTEREST	DISCIPLINE	ACADEMIC AND CAREER PATHS: Transfer Preparation, Degrees, and Certificates Offered (NOTE: Associate degrees require a minimum of 60 units)	PRIMARY ACADEMIC DEPARTMENT(S)
Arts, Media, and Entertainment AND Business AND Health and Wellness	Office Technology	<ul style="list-style-type: none"> • General Office Associate Degree • Legal Administrative Assistant Associate Degree • Medical Administrative Assistant Associate Degree • Medical Coding and Billing Specialist Associate Degree • General Office Certificate of Achievement (27 units) • Legal Administrative Assistant Certificate of Achievement (27 units) • Legal Office Clerk Certificate of Achievement (12 units) • Medical Administrative Assistant Certificate of Achievement (33 units) • Medical Coding and Billing Specialist Certificate of Achievement (36 units) • Medical Office Clerk Certificate of Achievement (12 units) • Clerical/Data Entry Department Certificate (12 units) • Electronic Medical Records Clerk Department Certificate (9 units) • Hospital Inpatient Coder Department Certificate (9 units) • Medical Billing/Coding Department Certificate (15 units) • Medical Records Clerk/Receptionist Department Certificate (15 units) • Medical Transcription Department Certificate (15 units) 	<ul style="list-style-type: none"> • Computer Science and Information Systems (CSIS)
Culture, History, and Languages	Persian	<i>See Modern Languages</i>	<ul style="list-style-type: none"> • Modern Languages and Cultures
Culture, History, and Languages	Philosophy	<ul style="list-style-type: none"> • Transfer Preparation • <i>See also Liberal Arts – Arts and Humanities</i> 	<ul style="list-style-type: none"> • Philosophy and Social Sciences
Arts, Media, and Entertainment	Photography	<ul style="list-style-type: none"> • Transfer Preparation • Photography Associate Degree • Photography Certificate of Achievement (40 units) 	<ul style="list-style-type: none"> • Photography and Fashion
STEM (Science, Technology, Engineering, and Math)	Photovoltaic Installation	<ul style="list-style-type: none"> • Solar Photovoltaic and Energy Efficiency Associate Degree • Solar Photovoltaic Installation Certificate of Achievement (14 units) • Basic Solar Photovoltaic Installation Department Certificate (8 units) • <i>See also Energy Efficiency</i> 	<ul style="list-style-type: none"> • Earth Sciences
STEM (Science, Technology, Engineering, and Math)	Physics	<ul style="list-style-type: none"> • Transfer Preparation • <i>See also Science: General Science</i> 	<ul style="list-style-type: none"> • Physical Sciences
STEM (Science, Technology, Engineering, and Math)	Physiology	<i>See Biological Sciences</i>	<ul style="list-style-type: none"> • Life Sciences
People and Society	Political Science	<ul style="list-style-type: none"> • Transfer Preparation • Political Science Associate Degree for Transfer • <i>See also Public Policy</i> 	<ul style="list-style-type: none"> • Philosophy and Social Sciences
People and Society	Political Science – Noncredit		<ul style="list-style-type: none"> • Philosophy and Social Sciences
Culture, History, and Languages	Portuguese	<i>See Modern Languages</i>	<ul style="list-style-type: none"> • Modern Languages and Cultures
Health and Wellness	Professional Courses in Kinesiology/Physical Education	<ul style="list-style-type: none"> • Athletic Coaching Associate Degree • Athletic Coaching Certificate of Achievement (24 units) <i>See Kinesiology/Physical Education</i>	<ul style="list-style-type: none"> • Kinesiology
People and Society	Psychology	<ul style="list-style-type: none"> • Transfer Preparation • Psychology Associate Degree for Transfer 	<ul style="list-style-type: none"> • Psychology

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AREA(S) OF INTEREST	DISCIPLINE	ACADEMIC AND CAREER PATHS: Transfer Preparation, Degrees, and Certificates Offered (NOTE: Associate degrees require a minimum of 60 units)	PRIMARY ACADEMIC DEPARTMENT(S)
People and Society	Public Policy	<ul style="list-style-type: none"> • Transfer Preparation • Public Policy Associate Degree • Public Policy Certificate of Achievement (19 units) • <i>See also Political Science</i> 	<ul style="list-style-type: none"> • Philosophy and Social Sciences
STEM (Science, Technology, Engineering, and Math)	Recycling and Resource Management	<ul style="list-style-type: none"> • Recycling and Resource Management Associate Degree • Recycling and Resource Management Certificate of Achievement (18 units) • Recycling and Zero Waste Department Certificate (12 units) 	<ul style="list-style-type: none"> • Earth Sciences
	Religious Studies		<ul style="list-style-type: none"> • English
Health and Wellness	Respiratory Care	<ul style="list-style-type: none"> • Respiratory Care Associate Degree 	<ul style="list-style-type: none"> • Health Sciences
Culture, History, and Languages	Russian	<i>See Modern Languages</i>	<ul style="list-style-type: none"> • Modern Languages and Cultures
STEM (Science, Technology, Engineering, and Math)	Science	<ul style="list-style-type: none"> • Transfer Preparation • General Science Associate Degree • <i>See also Astronomy</i> • <i>See also Biological Sciences</i> • <i>See also Chemistry</i> • <i>See also Geology</i> • <i>See also Physics</i> 	<ul style="list-style-type: none"> • Earth Sciences • Life Sciences • Physical Sciences • Interdepartmental
People and Society	Sociology	<ul style="list-style-type: none"> • Transfer Preparation • Sociology Associate Degree for Transfer • <i>See also Liberal Arts – Social and Behavioral Science</i> 	<ul style="list-style-type: none"> • Philosophy and Social Sciences
STEM (Science, Technology, Engineering, and Math)	Solar Photovoltaic Installation (Solar Energy Installation)	<i>See Photovoltaic Installation</i>	<ul style="list-style-type: none"> • Earth Sciences
Culture, History, and Languages	Spanish	<ul style="list-style-type: none"> • Transfer Preparation • Spanish Associate Degree for Transfer • <i>See also Modern Languages</i> 	<ul style="list-style-type: none"> • Modern Languages and Cultures
	Student Activities		<ul style="list-style-type: none"> • Counseling
Arts, Media, and Entertainment	Studio Arts	<i>See Art</i>	<ul style="list-style-type: none"> • Art
STEM (Science, Technology, Engineering, and Math)	Sustainability Systems and Technologies – Noncredit	<ul style="list-style-type: none"> • Sustainability Assistant Certificate of Completion (Noncredit) • Sustainability in Organics Aide Certificate of Completion (Noncredit) • Sustainability Services Technician Certificate of Completion (Noncredit) 	<ul style="list-style-type: none"> • Earth Sciences
Arts, Media, and Entertainment	Theatre Arts	<ul style="list-style-type: none"> • Transfer Preparation • Theatre Arts Associate Degree for Transfer • Technical Theatre Associate Degree • Theatre Associate Degree • Technical Theatre Certificate of Achievement (19 units) • Scenic Design and Construction Department Certificate (9 units) • Stage Lighting, Sound and Projection Department Certificate (9 units) 	<ul style="list-style-type: none"> • Theatre Arts
	Transfer	<i>See General Education</i> <i>See Liberal Arts</i> <i>See Science</i>	<ul style="list-style-type: none"> • Interdepartmental
Culture, History, and Languages	Turkish	<i>See Modern Languages</i>	<ul style="list-style-type: none"> • Modern Languages and Cultures
	Urban Studies	<i>See Geography</i>	<ul style="list-style-type: none"> • Earth Sciences
	Varsity Intercollegiate Athletics		<ul style="list-style-type: none"> • Athletics

Degrees, Certificates, and Transfer Preparation Information

Accounting

General accountants examine financial records of municipal, county, state, and federal agencies for compliance with laws. They record transactions, such as receivable, payable, payroll, property into a general ledger. Corporate accountants set up and design accounting/bookkeeping systems and procedures, risk management programs, tax law and finance methods, record financial transactions, and analyze and evaluate financial records for businesses. Their duties include interpreting financial information and preparing reports for business executives and government regulatory agencies. Advancement includes senior accountant, controller, treasurer, and chief financial officer positions.

Programs Offered:

- Transfer Preparation
- Accounting Associate Degree
- CPA Track (*formerly Professional Accountant*) Certificate of Achievement (24 units)
- Small Business Tax Practice Certificate of Achievement (17 units)
- Staff Accountant (*formerly General Accountant*) Certificate of Achievement (16 units)
- Business Bookkeeping (*formerly Computer Accounting*) Department Certificate (12 units)
- See also Business

TRANSFER PREPARATION

Students planning to transfer to a four-year college or university should refer to the transfer preparation information under Business.

ACCOUNTING, ASSOCIATE DEGREE

This program is for bookkeepers and accounting clerks who want to advance to a higher professional level. Business owners can strengthen their businesses with best ethical practices and compliance with current accounting standards and laws. Accountants may acquire specialized knowledge of accounting, which includes the setting up and designing of an effective accounting system, the interpretation and preparation of financial and tax information, and the reporting for business executives, partnerships, and nonprofit and governmental agencies.

Program Learning Outcomes: Upon completion of the program, students will effectively comprehend, record, post, and summarize financial accounting information from an original business transaction through the preparation of financial statements and the closing entries at the end of an accounting cycle. Students will demonstrate the ability to prepare calculations and use financial information for business management and decision making.

Required Core Courses: (16 units)

ACCTG 1, Introduction to Financial Accounting (5)

ACCTG 2, Corporate Financial and Managerial Accounting (5)

BUS 1, Introduction to Business (3)

BUS 32, Business Communications (3)

Required Electives: (12 units required, with a minimum of 6 units from List A)

LIST A: Select 6 to 12 units:

ACCTG 9, Accounting Ethics (3)

or

BUS 62, Human Relations and Ethical Issues in Business (3)

ACCTG 31A, Excel for Accounting (3)

or

ACCTG 31B, Advanced Excel for Accounting (3)

or

CIS 30, Microsoft Excel (3)

or

CIS 35A, QuickBooks Desktop (3) (*formerly CIS 35; formerly same as ACCTG 35*)

or

CIS 35B, QuickBooks Online (3)

ACCTG 15, Individual Income Taxes (3)

ACCTG 45, Individual Financial Planning (3) (*same as BUS 45*)

BUS 45, Individual Financial Planning (3) (*same as ACCTG 45*)

LIST B: Select a MAXIMUM of 7 units (if less than 12 units are completed from List A):

ACCTG 6, Accounting Consolidations (3)

ACCTG 7, Advanced Accounting: Special Topics (3)

ACCTG 10A, Intermediate Accounting A (3)

ACCTG 10B, Intermediate Accounting B (3)

ACCTG 10C, Intermediate Accounting C (4)

ACCTG 11, Cost Accounting (3)

ACCTG 12, Auditing (3)

ACCTG 16, Taxation of Corporations, Partnerships, Estates and Trusts (3)

ACCTG 19A, IRS Volunteer Income Tax Assistant (VITA) Program – Tax Preparer (1)

ACCTG 23, Payroll Accounting (3)

ACCTG 40A, Data Analytics for Accounting (3)

ACCTG 40B, Auditing Analytics (3)

ACCTG 50, ERP System: Introduction to Accounting (3)

BUS 5, Business Law and the Legal Environment (3)

CPA TRACK (FORMERLY PROFESSIONAL ACCOUNTANT), CERTIFICATE OF ACHIEVEMENT

After completing this program, students possess a range of accounting skills and an understanding of all the concepts tested on the Certified Public Accounting exam. These include GAAP, cost accounting, accounting for income taxes, accounting ethics, professional auditing responsibilities and analysis of complex and advanced accounting topics. For more information on the CPA exam, please see the California Board of Accountancy website (dca.ca.gov/cba/).

Program Learning Outcomes: Upon completion of the program, students will demonstrate a range of accounting skills and an understanding of accounting concepts that encompass all areas tested on the Certified Public Accounting exam. These areas include GAAP, cost accounting, accounting for income taxes, accounting ethics, professional audit-

ing responsibilities, and analysis of complex and advanced accounting topics.

Select 24 units from the following:

ACCTG 1, Introduction to Financial Accounting (5)

ACCTG 2, Corporate Financial and Managerial Accounting (5)

ACCTG 6, Accounting Consolidations (3)

or

ACCTG 7, Advanced Accounting: Special Topics (3)

ACCTG 9, Accounting Ethics (3)

ACCTG 10A, Intermediate Accounting A (3)

ACCTG 10B, Intermediate Accounting B (3)

ACCTG 10C, Intermediate Accounting C (4)

ACCTG 12, Auditing (3)

ACCTG 15, Individual Income Taxes (3)

ACCTG 16, Taxation of Corporations, Partnerships, Estates and Trusts (3)

ACCTG 40A, Data Analytics for Accounting (3)

ACCTG 40B, Auditing Analytics (3)

BUS 5, Business Law and the Legal Environment (3)

SMALL BUSINESS TAX PRACTICE, CERTIFICATE OF ACHIEVEMENT

This program is intended to prepare individuals to enter the tax profession and enable them to prepare tax returns for the general public. In addition, hands-on experience in the form of supervised tax preparation through an internship or SMC's Volunteer Income Tax Assistance (VITA) program provides real-world knowledge.

Program Learning Outcomes: Upon completion of the program, students will demonstrate a range of tax preparation skills required to complete both Federal and State tax returns for individuals.

Internship or Volunteer Income Tax Assistance (VITA) program participation.

ACCTG 19A, IRS Volunteer Income Tax Assistance (VITA) Program – Tax Preparer (1)

or

ACCTG 90A, Accounting Internship (1)

Required courses: (10 units)

ACCTG 9, Accounting Ethics (3)

ACCTG 16, Taxation of Corporations, Partnerships, Estates and Trusts (3)

ACCTG 17, Income Tax Preparation (CTEC-Approved) (4)

Select two courses from the following: (6 units)

ACCTG 31A, Excel for Accounting (3)

or

ACCTG 31B, Advanced Excel for Accounting (3)

BUS 8, Law for the Entrepreneur (3)

BUS 23, Principles of Selling (3)

BUS 34A, Introduction to Digital Marketing (3)
(formerly BUS 34)

BUS 63, Principles of Entrepreneurship (3)

STAFF ACCOUNTANT (FORMERLY GENERAL ACCOUNTANT) (FORMERLY ACCOUNTING), CERTIFICATE OF ACHIEVEMENT

This program is for bookkeepers and accounting clerks who want to advance to a higher professional level. Accountants may acquire specialized knowledge of accounting, which includes the setting up and designing of an effective accounting system, and interpretation and preparation of financial and tax information. Students completing this Certificate of Achievement may wish to pursue the Accounting Associate degree by satisfying additional requirements.

Program Learning Outcomes: Upon completion of the program, students will effectively comprehend, record, post, and summarize financial accounting information from an original business transaction through the preparation of financial statements and the closing entries at the end of an accounting cycle. Students will demonstrate the ability to prepare calculations and use financial information for business management and decision making.

Required Core Courses: (16 units)

ACCTG 1, Introduction to Financial Accounting (5)

ACCTG 2, Corporate Financial and Managerial Accounting (5)

ACCTG 10A, Intermediate Accounting A (3)

ACCTG 10B, Intermediate Accounting B (3)

BUSINESS BOOKKEEPING (FORMERLY COMPUTER ACCOUNTING), DEPARTMENT CERTIFICATE

This certificate is designed to provide students with the basic accounting skills and knowledge necessary to obtain entry-level accounting and other accounting-support positions in small- and medium-size businesses.

Program Learning Outcomes: Upon completion of the program, students will demonstrate basic knowledge of computerized accounting application software, such as word processing, spreadsheet, and basic general ledger applications.

Required Courses: (12 units)

ACCTG 21, Business Bookkeeping (3)

ACCTG 22, Advanced Bookkeeping (3)

ACCTG 23, Payroll Accounting (3)

ACCTG 31A, Excel for Accounting (3)

or

ACCTG 31B, Advanced Excel for Accounting (3)

or

CIS 35A, QuickBooks Desktop (3) (formerly CIS 35; formerly same as ACCTG 35)

or

CIS 35B, QuickBooks Online (3)

Administration of Justice

The Associate in Science in Administration of Justice for Transfer (AS-T) involves the study of the functions and roles of the police, courts, and corrections. This course of study provides students the opportunity to acquire skills in research, information gathering, observation, analytical and critical thinking, and written and verbal communication.

This major may lead to a career in law enforcement, private security, corrections, forensics, and related areas.

Programs Offered:

- Transfer Preparation
- Administration of Justice Associate Degree for Transfer

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

SMC offers the **Administration of Justice Associate Degree for Transfer**. Students completing this degree are eligible for priority transfer admission consideration in the majors at many **California State University** campuses. In addition, students will be required to complete no more than 60 semester/90 quarter CSU units of coursework after transfer to complete the baccalaureate degree.

NOTE: Students considering transfer to a UC, private, or out-of-state school should consult a counselor BEFORE applying to transfer, as the transfer requirements may be different from those required for the Administration of Justice AS-T.

The most current list of CSU campuses accepting this Associate Degree for Transfer is available online at calstate.edu/transfer/ad-search/search.shtml

ADMINISTRATION OF JUSTICE, ASSOCIATE DEGREE FOR TRANSFER

Upon completion of the Associate in Science in Administration of Justice (AS-T), students will have a strong academic foundation in the field and be prepared for upper-division baccalaureate study. Completion of the degree indicates that the student will have satisfied the lower-division requirements for transfer into an Administration of Justice program for many campuses in the California State University system.

Program Learning Outcomes: Upon completion of the program, students will be able to evaluate complex issues in criminal justice from varying perspectives. Students will demonstrate an understanding of the functions of the police, courts, and corrections.

Required Core Courses: (6 units)

- AD JUS 1, Introduction to Administration of Justice (3)
- AD JUS 2, Concepts of Criminal Law (3)

List A: Select two courses (6 units)

- AD JUS 3, Legal Aspects of Evidence (3)
- AD JUS 5, Criminal Investigation (3)
- AD JUS 8, Juvenile Procedures (3)
- AD JUS 11, Introduction to Forensics (3)
- AD JUS 67, Community and the Justice System (3)

List B: Select two courses (6 units)

- BUS 32, Business Communications (3)
- CIS 4, Business Information Systems with Applications (3)
- COM ST 11, Elements of Public Speaking (3)
- COM ST 12, Persuasion (3)
- COM ST 16, Fundamentals of Small Group Discussion (3)
- COM ST 21, Argumentation (3)
- ENGL 2, Critical Analysis and Intermediate Composition (3)
- ENGL 31, Advanced Composition (3)
- HIST 47, The Practice of History (3)
- MATH 2, Precalculus (5)
- MATH 7, Calculus 1 (5)
- MATH 21, Finite Mathematics (3)
- MATH 28, Calculus 1 for Business and Social Science (5)
- MATH 54, Elementary Statistics (4)
- PHILOS 7, Logic and Critical Thinking (3)
- PHILOS 9, Symbolic Logic (3)
- POL SC 1, American and California Politics (3)
- PSYCH 1, General Psychology (3)
- SOCIOL 4, Sociological Analysis (3)
-
- SOCIOL 1, Introduction to Sociology (3)
- or*
- SOCIOL 1s, Introduction to Sociology – Service Learning (3)
-
- SOCIOL 2, Social Problems (3)
- or*
- SOCIOL 2s, Social Problems – Service Learning (3)

African and Middle Eastern Studies

See Modern Languages

American Sign Language

See Modern Languages

Anatomy

See Biological Sciences

Animation

Programs Offered:

- Transfer Preparation
- Animation Associate Degree
- 2D Animation Certificate of Achievement (18 units)
- 3D Animation Certificate of Achievement (17 units)
- 3D Production Certificate of Achievement (17 units)
- Animation Foundation Certificate of Achievement (15 units)
- Visual Development Certificate of Achievement (18 units)

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

ANIMATION, ASSOCIATE DEGREE

See recommended course sequence below.

The Associate degree in Animation program is a comprehensive study of the skills necessary to create 2D or 3D digital animation for the entertainment industry. The required coursework begins with the Animation Foundation Certificate of Achievement, combining a solid foundation in animation history and visual storytelling with hands-on experience in digital animation pre-production and production processes.

After successfully completing the Animation Foundation, students pursue a concentration in 2D Animation, 3D Animation, 3D Production, or Visual Development. Each concentration reflects an area of industry specialization, and is awarded as a second Certificate of Achievement. Students must complete the required coursework for the Animation Foundation and at least one concentration to be eligible for the Associate degree in Animation.

Throughout the Associate degree in Animation program, students learn to develop professional skills, demonstrate those skills in effective entry-level portfolios, and work collaboratively on team-based projects. Students may also participate in internships with industry partners when available.

Program Learning Outcomes: Upon completion of the program, students will be able to create original content that demonstrates an understanding of the professional animation production pipeline, and develop an effective portfolio for transfer or entry-level employment in the entertainment industry.

Required Core Courses: (15 units)

- ANIM 1, Storytelling (3) (formerly ET 2)
- ANIM 2, 2D Animation Fundamentals (3) (formerly ET 19A)
- ANIM 3, 3D Fundamentals (3) (same as ET 24)
- ANIM 4, Digital Storyboarding (3) (formerly ET 18)
- ANIM 5, History of Animation (3) (formerly ET 61)

Required Concentration: Select 1 of the following concentrations: (minimum 17 units as specified)

2D Animation Concentration: (18 units)

- ANIM 18, Perspective Drawing (2) (formerly ET 91)
- ANIM 19, Color Theory and Application (2) (formerly ET 94)
- ANIM 20, Intermediate 2D Animation (3) (formerly ET 19B)
- ANIM 21, Advanced 2D Animation (3) (formerly ET 23)

- ANIM 22, 2D Digital Production (3) (formerly ET 75)
- ANIM 75, Career Development (2) (formerly ET 72)
- ANIM 85, Animation Studio (3) (formerly ET 30)

or

3D Animation Concentration: (17 units)

- ANIM 20, Intermediate 2D Animation (3) (formerly ET 19B)
- ANIM 30, Intermediate 3D Animation (3) (formerly ET 24B)
- ANIM 31, Advanced 3D Animation (3) (formerly ET 24C)
- ANIM 32, Digital Previsualization (3) (formerly ET 24D)
- ANIM 75, Career Development (2) (formerly ET 72)
- ANIM 85, Animation Studio (3) (formerly ET 30)

or

3D Production Concentration: (17 units)

- ANIM 35, 3D Modeling (3) (formerly ET 25)
- ANIM 36, 3D Texturing and Rendering (3) (formerly ET 26)
- ANIM 37, 3D Character Creation (3) (formerly ET 25B)
- ANIM 38, 3D Character Rigging (3) (formerly ET 25C)
- ANIM 75, Career Development (2) (formerly ET 72)
- ANIM 85, Animation Studio (3) (formerly ET 30)

or

Visual Development Concentration: (18 units)

- ANIM 18, Perspective Drawing (2) (formerly ET 91)
- ANIM 19, Color Theory and Application (2) (formerly ET 94)
- ANIM 40, Character Design (3) (formerly ET 21A)
- ANIM 41, Environment Design (3) (formerly ET 21B)
- ANIM 42, Prop and Vehicle Design (3) (formerly ET 21C)
- ANIM 75, Career Development (2) (formerly ET 72)
- ANIM 80, Visual Development Studio (3) (formerly ET 20)

2D ANIMATION, CERTIFICATE OF ACHIEVEMENT

The 2D Animation certificate is a comprehensive study of the process of creating two-dimensional animation for use in the entertainment industry. Students learn to create high-quality 2D animated content for a variety of projects using standard industry tools and methods.

Program Learning Outcomes: Upon completion of the program, students will be able to create original content that demonstrates an understanding of the professional 2D animation production pipeline, and develop an effective portfolio for transfer or entry-level employment in the entertainment industry.

Required Courses: (18 units)

- ANIM 18, Perspective Drawing (2) (formerly ET 91)
- ANIM 19, Color Theory and Application (2) (formerly ET 94)
- ANIM 20, Intermediate 2D Animation (3) (formerly ET 19B)
- ANIM 21, Advanced 2D Animation (3) (formerly ET 23)
- ANIM 22, 2D Digital Production (3) (formerly ET 75)
- ANIM 75, Career Development (2) (formerly ET 72)
- ANIM 85, Animation Studio (3) (formerly ET 30)

3D ANIMATION, CERTIFICATE OF ACHIEVEMENT

The 3D Animation program is a comprehensive study of the process of creating three-dimensional animation for use in the entertainment industry. Students learn to create high

quality 3D animated content for a variety of projects using standard industry tools and methods.

Program Learning Outcomes: Upon completion of the program, students will be able to create original content that demonstrates an understanding of the professional 3D animation production pipeline, and to develop an effective portfolio for transfer or entry-level employment in the entertainment industry.

Required Courses: (17 units)

- ANIM 20, Intermediate 2D Animation (3) *(formerly ET 19B)*
- ANIM 30, Intermediate 3D Animation (3) *(formerly ET 24B)*
- ANIM 31, Advanced 3D Animation (3) *(formerly ET 24C)*
- ANIM 32, Digital Previsualization (3) *(formerly ET 24D)*
- ANIM 75, Career Development (2) *(formerly ET 72)*
- ANIM 85, Animation Studio (3) *(formerly ET 30)*

3D PRODUCTION, CERTIFICATE OF ACHIEVEMENT

The 3D Production program is a comprehensive study of the process of creating three-dimensional assets for use in the entertainment industry. Students learn to create high-quality 3D production assets for a variety of projects using standard industry tools and methods.

Program Learning Outcomes: Upon completion of the program, students will be able to create original content that demonstrates an understanding of the professional 3D production pipeline, and to develop an effective portfolio for transfer or entry-level employment in the entertainment industry.

Required Courses: (17 units)

- ANIM 35, 3D Modeling (3) *(formerly ET 25)*
- ANIM 36, 3D Texturing and Rendering (3) *(formerly ET 26)*
- ANIM 37, 3D Character Creation (3) *(formerly ET 25B)*
- ANIM 38, 3D Character Rigging (3) *(formerly ET 25C)*
- ANIM 75, Career Development (2) *(formerly ET 72)*
- ANIM 85, Animation Studio (3) *(formerly ET 30)*

ANIMATION FOUNDATION, CERTIFICATE OF ACHIEVEMENT

The Animation Foundation program provides a solid foundation in animation history and visual storytelling, as well as hands-on exposure to digital animation pre-production and production processes. Students will gain a fundamental understanding of industry-standard software applications.

Program Learning Outcomes: Upon completion of the program, students will be able to create original content that demonstrates an understanding of 2D and 3D animation principals using standard industry tools and methodologies. Students will also be able to make informed choices in pursuing entry-level employment or advanced study in areas of animation development or production.

Required Courses: (15 units)

- ANIM 1, Storytelling (3) *(formerly ET 2)*
- ANIM 2, 2D Animation Fundamentals (3) *(formerly ET 19A)*
- ANIM 3, 3D Fundamentals (3) *(formerly ET 24)*

ANIM 4, Digital Storyboarding (3) *(formerly ET 18)*

ANIM 5, History of Animation (3) *(formerly ET 61)*

VISUAL DEVELOPMENT, CERTIFICATE OF ACHIEVEMENT

The Visual Development program is comprehensive study of the visual development pre-production process used in the entertainment industry. Students learn to create high-quality visual development art and storyboard animatics for a variety of projects using standard industry tools and methods.

Program Learning Outcomes: Upon completion of the program, students will be able to create original content that demonstrates an understanding of the professional visual development process, and to develop an effective portfolio for transfer or entry-level employment in the entertainment industry.

Required Courses: (18 units)

- ANIM 18, Perspective Drawing (2) *(formerly ET 91)*
- ANIM 19, Color Theory and Application (2) *(formerly ET 94)*
- ANIM 40, Character Design (3) *(formerly ET 21A)*
- ANIM 41, Environment Design (3) *(formerly ET 21B)*
- ANIM 42, Prop and Vehicle Design (3) *(formerly ET 21C)*
- ANIM 75, Career Development (2) *(formerly ET 72)*
- ANIM 80, Visual Development Studio (3) *(formerly ET 20)*

Anthropology

Anthropologist is a general term for those who study human societies, both present and past. A socio-cultural anthropologist may work in a field such as development, community organizing, policy analysis, and social research. Linguistic anthropologists may work in the areas of intercultural communication, language revitalization, and literacy programs. An emphasis in Archaeology lends itself to work in one of many Federal and State agencies and private cultural resource management firms. Biological and medical anthropologists work in the growing sector of health related occupations and research. Consultants are employed in historical and ethnographic research, forensic work, archaeological survey and excavation, museums and teaching.

Programs Offered:

- Transfer Preparation
- Anthropology Associate Degree for Transfer
- Cultural Resource Management Certificate of Achievement (9 units)

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

The **University of California system has a transfer pathway** for any UC campus that offers Anthropology. For more information, visit pathwaysguide.universityofcalifornia.edu

SMC offers the **Anthropology Associate Degree for Transfer**. Students completing this degree are eligible for priority transfer admission consideration in the majors at many **California State University** campuses. In addition, students will be required to complete no more than 60 semester/90 quarter CSU units of coursework after transfer to complete the baccalaureate degree.

NOTE: Students considering transfer to a UC, private, or out-of-state school should consult a counselor BEFORE applying to transfer, as the transfer requirements may be different from those required for the Anthropology AA-T.

The most current list of CSU campuses accepting this Associate Degree for Transfer is available online at calstate.edu/transfer/adt-search/search.shtml

ANTHROPOLOGY, ASSOCIATE DEGREE FOR TRANSFER

The Associate in Arts in Anthropology for Transfer (AA-T) involves the critical examination of human societies, both present and past. It provides basic information about humankind and is designed to stimulate critical thinking about ways of living in the world. The courses of this degree address the four sub-disciplines of Anthropology which attempt to understand basic aspects of humankind. Cultural anthropology studies human behavior to understand the cultural values that guide the behaviors. Archaeology examines the material record of human activity in order to understand how ideas change over time. Anthropological linguistics is the study of the human capacity for language and its use. Physical anthropology (also called biological anthropology) is the study of human evolution, which includes human biological diversity.

Upon completion of the Associate in Arts in Anthropology for Transfer (AA-T), students will have a strong academic foundation in the field and be prepared for upper-division baccalaureate study. Students who have completed the Associate in Arts for Transfer in Anthropology will have satisfied the lower-division requirements for transfer into Anthropology or similar majors for many campuses in the California State University system.

Program Learning Outcomes: Upon completion of the program, students will: (1) develop an integrated understanding of humans and human variation; (2) explore the concepts, theories, and methodologies anthropologists use to analyze human behavior; (3) discover how anthropology can be used to address contemporary issues; and (4) use an evolutionary framework to investigate humans and non-human primates.

Required Core Course: (9 units)

ANTHRO 1, Physical Anthropology (3)

or

ANTHRO 5, Physical Anthropology with Lab (4)

ANTHRO 2, Cultural Anthropology (3)
ANTHRO 4, Methods of Archaeology (3)

AREA A: Select at least 1 course from the following: (3 units)

ANTHRO 7, Introduction to Linguistic Anthropology (3)
ANTHRO 22, Magic, Religion, and Witchcraft (3)
ENGL 2, Critical Analysis and Intermediate Composition (3)
ENGL 31, Advanced Composition (3)
GEOG 1, Physical Geography (3)
HIST 47, The Practice of History (3)
MATH 54, Elementary Statistics (4)

AREA B: Select at least 1 course from the following: (3 units)

ANY COURSE NOT USED IN AREA A
ANATMY 1, Human Anatomy (4)
GEOG 20, Introduction to Geographic Information Systems (3) (*same as GIS 20; formerly same as CIS 20*)
GEOL 4, Physical Geology with Lab (4)
GEOL 5, Historical Geology with Lab (4)
PHILOS 6, Philosophy of Science (3)
PSYCH 7, Research Methods in Psychology (3)

AREA C: Select at least 1 course from the following:

ANY COURSE NOT USED IN AREA A OR AREA B
ANTHRO 3, 9, 10, 14, 19, 20, 21, 35s
AHIS 11, 71, 72
COM ST 14, 37
DANCE 2
ECE 11
ECON 5 (*same as POL SC 5 and GLOBAL 5*)
ENGL 9, 10, 34, 41, 53, 54
FILM 7
GEOG 8 (*same as URBAN 8*), 11 (*same as GLOBAL 11*), 14
GLOBAL 5 (*same as ECON 5 and POL SC 5*), 10, 11 (*same as GEOG 11*)
HIST 10, 16, 33, 34, 38, 39, 41, 42, 43, 62
MEDIA 10
MUSIC 33, 37
NUTR 7
POL SC 5 (*same as ECON 5 and GLOBAL 5*), 21
SOCIO 1, 1s, 2, 2s, 30, 31, 32, 34
URBAN 8 (*same as GEOG 8*)

CULTURAL RESOURCE MANAGEMENT, CERTIFICATE OF ACHIEVEMENT

This certificate provides specific knowledge and practical experience to students who may pursue careers in cultural resource management (CRM), archaeology, anthropology, museum studies, or historic preservation. CRM integrates the fields of archaeology and historic preservation to address the myriad types of federal, state, and local legislation aimed at protecting cultural resources. CRM is the fastest growing sub-discipline within archaeology, and ensures that critical archaeological concerns are represented throughout project planning and construction.

Program Learning Outcomes: Upon completion of the program, students will identify the complex relationship between economic development and heritage preservation; demonstrate understanding of the ethical issues surrounding the conservation of archaeological sites; demonstrate an understanding of archaeological and anthropological principles as they pertain to cultural resource management; and demonstrate adequate excavation or laboratory

techniques necessary for employment within the field of cultural resource management.

Required Core Courses: (6 units)

ANTHRO 3, World Archaeology (3)

or

ANTHRO 4, Methods of Archaeology (3)

and

ANTHRO 35s, Archaeological Field Techniques (3)

or

ERTHSC 88A, Independent Studies in Earth Science (1)

and

ERTHSC 88B, Independent Studies in Earth Science (2)

Select one: (3 units)

ANTHRO 1, Physical Anthropology (3)

ANTHRO 3, World Archaeology* (3)

ANTHRO 4, Methods of Archaeology* (3)

ANTHRO 5, Physical Anthropology with Lab (4)

ANTHRO 9, Paleoanthropology (3)

ANTHRO 10, Forensic Anthropology (3)

ANTHRO 35S, Archaeological Field Techniques* (3)

ART 10A, Design I (3)

ASTRON 6, Archeoastronomy (3)

GEOG 14, Geography of California (3)

GEOG 20, Introduction to Geographic Information Systems (3) (*same as GIS 20*)

GEOG 23, Intermediate Geographic Information Systems (3) (*same as GIS 23*)

GEOL 1, Physical Geology without Lab (3)

GEOL 4, Physical Geology with Lab (4)

GIS 20, Introduction to Geographic Information Systems (3) (*same as GEOG 20*)

GIS 23, Intermediate Geographic Information Systems (3) (*same as GEOG 23*)

GIS 27, Applications in Geographic Information Systems (3)

GEOG 14, Geography of California (3)

GEOL 1, Physical Geology without Lab (3)

GEOL 4, Physical Geology with Laboratory (4)

HIST 20, History of California (3)

HIST 41, Native-American History (3)

PHOTO 1, Introduction to Photography (3)

PHOTO 30, Techniques of Lighting: Introduction (4)

PHOTO 39, Beginning Photoshop (3)

**If not used above.*

Arabic

See Modern Languages

Architecture

This program explores architecture through cultural, environmental, and social relevance while understanding and addressing critical issues facing the built environment. Innovative design, critical analysis, and communication skills are developed in drawing, writing, modeling, and collaboration. Students completing the AS degree may apply for transfer to a university program in architecture, interior architecture, or environmental design, or obtain an entry-level position in the same fields.

Note: In addition to meeting academic requirements for admittance into a university, architecture programs also

require prospective students to submit a portfolio to review for admittance into the program. It is recommended that students make an appointment with counselors at the institution of their choice to inquire about requirements.

After completion of this architecture program, California students have the option to pursue a license in architecture through the NCARB internship process.

Programs Offered:

- Transfer Preparation
- Architecture Associate Degree
- Architecture Certificate of Achievement (31 units)
- Architecture and Interior Design Digital Production Certificate of Achievement (16 units)
- See also Interior Architectural Design

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

ARCHITECTURE, ASSOCIATE DEGREE OR CERTIFICATE OF ACHIEVEMENT

Program Learning Outcomes: Upon completion of the program, students will demonstrate the ability to research and analyze critical concepts of design and human interaction within the built environment, understand Interior designer's role in society, develop environmentally responsible designs, and communicate design concepts through drawing, writing, modeling, and collaboration. Students will develop a portfolio of work displaying design and technical skills to apply as an entry level interior architectural designer or drafter, or to transfer to a university.

Required Courses: (31 units)

AHIS 21, Architectural History: Ancient to 1850 (3)

AHIS 22, Architectural History and Theory: 1850 to Present (3)

ARC 10, Studio 1 (3) (*formerly INTARC 34B*)

ARC 11, Design Communication 1 (3) (*formerly INTARC 28B/INTARC 29*)

ARC 20, Studio 2: Architecture (3)

ARC 21, Design Communication 2 (3) (*formerly INTARC 28A/INTARC 35*)

ARC 30, Studio 3: Architecture (3)

ARC 31, Design Communication 3 (3) (*formerly INTARC 38*)

ARC 32, Construction Materials and Methods (3)

ARC 40, Studio 4: Architecture (3)

ARC 70, Portfolio (1)

ARCHITECTURE AND INTERIOR DESIGN DIGITAL PRODUCTION, CERTIFICATE OF ACHIEVEMENT

This certificate provides students with practical knowledge using industry standard tools and techniques. Focus is on communicating ideas and projects using a variety of technical skills including digital drafting, modeling, rendering, image enhancement, fabrication and the use of VR in the design industry. Students will be prepared to work in a wide range of design disciplines including, architecture, interior design, fixture and furnishing design, and 3D rendering firms.

Program Learning Outcomes: Upon completion of the certificate, students will demonstrate the ability to communicate designs and projects through drawing, modeling, and collaboration. Students will develop a portfolio of work displaying a variety of technical skills to apply as an entry level drafter or renderer.

Required Courses: (16 units)

- ARC 11, Design Communication 1 (3) (formerly INTARC 28B/INTARC 29)
- ARC 21, Design Communication 2 (3) (formerly INTARC 28A/INTARC 35)
- ARC 31, Design Communication 3 (3) (formerly INTARC 38)
- ARC 41, Design Communication 4 (3) (formerly INTARC 70)
- ARC 51, Design Communication 5 (3) (formerly INTARC 65)
- ARC 70, Portfolio (1)

Art

Artists express their thoughts and feelings by creating fine art works that are primarily intended for aesthetic enjoyment. Related career titles include advertising artist or designer, art administrator, furniture designer, illustrator, courtroom sketcher, medical illustrator, animator and toy designer. Some organizations that typically employ art majors include: studios, museums, auction houses, art councils, educational institutions, hospitals, interior design departments, advertising agencies, and film and media production companies.

Programs Offered:

- Transfer Preparation
- Studio Arts Associate Degree for Transfer
- Art Associate Degree
- See also Art History

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation

agreements between SMC and some of these institutions see smc.edu/articulation.

In addition to meeting academic requirements, most universities and art schools require prospective students to submit a portfolio with evidence of individual style and concepts for admission to be presented to the Art Department of each institution they apply to for admission.

It is highly recommended that students follow the “**For Transfer Consideration and Portfolio Development in Art**” with Elective Areas of Specialization prepared by the SMC Art Department. These recommendations may be found below, in General Counseling & Transfer Services, the Art Department, and online at smc.edu/articulation. The recommendations will help students to develop a successful portfolio for transfer.

In addition, students should make an appointment with the institution of their choice to find out about specific courses and portfolio projects needed for transfer.

SMC offers the **Studio Arts Associate Degree for Transfer**. Students completing this degree are eligible for priority transfer admission consideration in the majors at many **California State University** campuses. In addition, students will be required to complete no more than 60 semester/90 quarter CSU units of coursework after transfer to complete the baccalaureate degree.

NOTE: Students considering transfer to a UC, private, or out-of-state school should consult a counselor BEFORE applying to transfer, as the transfer requirements may be different from those required for the Studio Arts AA-T.

The most current list of CSU campuses accepting this Associate Degree for Transfer is available online at calstate.edu/transfer/adt-search/search.shtml

STUDIO ARTS, ASSOCIATE DEGREE FOR TRANSFER

Upon completion of the Associate in Arts in Studio Arts for Transfer (AA-T), students will have a strong academic foundation in the field and be prepared for upper-division baccalaureate study. Completion of the degree indicates that the student will have satisfied the lower-division requirements for transfer into Studio Arts or similar majors for many campuses in the California State University system.

Program Learning Outcomes: Upon completion of this program, students will be able to demonstrate an ability to work with contemporary visual ideas and their solutions as they apply to studio practice; have an understanding of conceptual thinking and the ability to communicate their ideas using research that will include media, visual culture, art history, history, and an understanding of the importance of verbal and written skills; and develop strong visualization skills, professional attitude, and a portfolio that supports their goals.

Required Core Courses: (12 units)

- AHIS 2, Western Art History II (3)
- ART 10A, Design I (3)
- ART 13, 3D Design (3)
- ART 20A, Drawing I – Introduction to Drawing (3)

LIST A: Select 1 course from the following: (3 units)

- AHIS 1, Western Art History I (3)
- AHIS 3, Global Art History Since 1860 (3)
- AHIS 17, Arts of Asia (3)

LIST B: Select 3 courses from the following: (9 units)

ART 10B, Principles of Design (3)
 ART 10C, Digital Media (3)
 ART 15, Lettering (3)
 ART 17A, 3D Jewelry Design I (3)
 ART 17B, 3D Jewelry Design II (3)
 ART 20B, Drawing II – Drawing with Color (3)
 ART 20C, Digital Drawing (3)
 ART 21A, Figure Drawing I (3)
 ART 21B, Figure Drawing II (3)
 ART 30A, Beginning Watercolor Painting I (3)
 ART 30B, Watercolor Painting II (3)
 ART 30C, Acrylic Painting Techniques (3)
 ART 31, Beginning Oil Painting (3)
 ART 32, Intermediate Painting (3)
 ART 33, Figure Painting (3)
 ART 35, Airbrush Techniques (3)
 ART 40A, Sculpture I (3)
 ART 40B, Sculpture II (3)
 ART 40C, Sculpture III (3)
 ART 41A, Figure Modeling Sculpture I (3)
 ART 41B, Figure Modeling Sculpture II (3)
 ART 43A, Glass Sculpture I (3)
 ART 52A, Ceramics I (3)
 ART 52B, Ceramics II (3)
 ART 60, Introduction to Printmaking (3)
 ART 61A, Etching (3)
 ART 61B, Advanced Etching (3)
 ART 62, Serigraphy (Silkscreen) (3)
 ART 63, Lithography (3)

ART, ASSOCIATE DEGREE

Program Learning Outcomes: Upon completion of the program, students will demonstrate an appreciation and understanding of art and art history in order to develop creative and critical thinking solutions to various art and art history issues. Students will look at an artistic situation, whether in implementation or analysis, in order to develop and create a strategy for its solution.

Required Core Courses: (6 units)

ART 10A, Design I (3)
 ART 20A, Drawing I – Introduction to Drawing (3)

Select 2 Core Courses from the following: (6 units)

AHIS 1, Western Art History I (3)
 AHIS 2, Western Art History II (3)
 AHIS 3, Global Art History Since 1860 (3)
 AHIS 5, Latin American Art History 1 (3)
 AHIS 6, Latin American Art History 2 (3)
 AHIS 15, Mexican Art History (3)
 AHIS 17, Arts of Asia (3)
 AHIS 18, Introduction to African Art History (3)
 AHIS 72, American Art History (3)

Required Foundation Courses: (9 units required; it is strongly recommended that the foundation courses be taken after completion of core courses):

Required Core Courses: (9 units)

ART 10B, Principles of Design (3)
 ART 20B, Drawing II – Drawing with Color (3)
 ART 21A, Figure Drawing I (3)

Select 1 Foundation Course from the following: (3 units)

ART 13, 3D Design (3)
 ART 40A, Sculpture I (3)

ART 52A, Ceramics I (3)
 ART 74, Introduction to Programming in the Arts (3)
 ART 75, Form and Information (3)

For Transfer Consideration and Portfolio Development in Art

In addition to the required courses of the Art degree above, the SMC Art Department recommends the following courses of study for transfer consideration and portfolio development:

Painting/Drawing/Printmaking Emphasis:

ART 21B, Figure Drawing II (3)
 ART 30A, Beginning Watercolor Painting I (3)
 ART 30B, Watercolor Painting II (3)
 ART 30C, Acrylic Painting Techniques (3)
 ART 32, Intermediate Painting (3)
 ART 33, Figure Painting (3)
 ART 35, Airbrush Techniques (3)
 ART 60, Introduction to Printmaking (3)
 ART 61A, Etching (3)
 ART 61B, Advanced Etching (3)
 ART 62, Serigraphy (Silkscreen) (3)
 ART 63, Lithography (3)

Contemporary Art Practice and Theory Emphasis:

ART 34B, Contemporary Art Theory and Practice (3)

Fine Arts Emphasis:

ART 13, 3D Design (3)
 ART 32, Intermediate Painting (3)
 ART 33, Figure Painting (3)
 ART 40A, Sculpture I (3)

New Technologies Emphasis:

ART 20C, Digital Drawing (3)
 PHOTO 1, Introduction to Photography (3)
 PHOTO 2, Basic Black and White Darkroom Techniques (3)

Printmaking Emphasis:

ART 60B, Introduction to Digital Printing (3)
 ART 62, Serigraphy (Silkscreen) (3)

Select 1 additional course from the following:

AHIS 3, Global Art History Since 1860 (3)
 AHIS 52, History of Photography (3) (*same as PHOTO 52*)
 AHIS 72, American Art History (3)

Design with a Digital Technologies Emphasis:

ART 15, Lettering (3)
 ART 20C, Digital Drawing (3)
 ART 21B, Figure Drawing II (3)
 ART 30A, Beginning Watercolor Painting I (3)
 ART 30B, Watercolor Painting II (3)
 ART 30C, Acrylic Painting Techniques (3)
 ART 34B, Contemporary Art Theory and Practice (3)
 ART 60B, Introduction to Digital Printing (3)
 ART 61A, Etching (3)
 ART 61B, Advanced Etching (3)
 ART 62, Serigraphy (Silkscreen) (3)
 ART 63, Lithography (3)

3-D/Ceramics and Sculpture Emphasis:

ART 13, 3D Design (3)
 ART 17A, 3D Jewelry Design I (3)
 ART 17B, 3D Jewelry Design II (3)
 ART 40A, Sculpture I (3)

ART 40B, Sculpture II (3)
 ART 40C, Sculpture III (3)
 ART 41A, Figure Modeling Sculpture I (3)
 ART 41B, Figure Modeling Sculpture II (3)
 ART 43A, Glass Sculpture I (3)
 ART 43B, Glass Sculpture II (3)
 ART 52A, Ceramics I (3)
 ART 52B, Ceramics II (3)
 ART 52C, Ceramics III (3)

Art History

Art history is the study of art created in the past by individuals from various cultures and parts of the world. It is the study of the historical development of art as social and intellectual phenomenon, the analysis of works of art and art conservation. Students study specific periods, cultures, styles and themes. The art historian seeks to interpret and understand works of art of many types, ranging from the monumental to small scale, by learning about artists' lives and their societies. Students are prepared for a wide range of professional careers – in museums, galleries, auction houses or publishing, including antique dealer, art appraiser, art dealer, art restorer and museum curator.

Programs Offered:

- Transfer Preparation
- Art History Associate Degree for Transfer

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

SMC offers the **Art History Associate Degree for Transfer**. Students completing this degree are eligible for priority transfer admission consideration in the majors at many **California State University** campuses. In addition, students will be required to complete no more than 60 semester/90 quarter CSU units of coursework after transfer to complete the baccalaureate degree.

NOTE: Students considering transfer to a UC, private, or out-of-state school should consult a counselor BEFORE applying to transfer, as the transfer requirements may be different from those required for the Art History AA-T.

The most current list of CSU campuses accepting this Associate Degree for Transfer is available online at calstate.edu/transfer/ad-search/search.shtml

ART HISTORY, ASSOCIATE DEGREE FOR TRANSFER

Program Learning Outcomes: Upon completion of the program, students will have proficiency in the written and verbal critical analysis of diverse visual cultures and artworks, demonstrate the basics of aesthetic formal analysis, and gain the vocabulary necessary to conduct a coherent critical investigation of artworks in both written and verbal form, as well as the ability to situate those artworks within a social context and a historical chronology. Additionally, students will demonstrate the ability to explore the function of aesthetic objects, the materials and techniques of artistic production, systems of patronage, the conventions of representation, and the relationship between art, politics, race, gender, sexuality, and power.

Required Core Courses: (9 units)

- AHIS 1, Western Art History I (3)
- AHIS 2, Western Art History II (3)
- ART 20A, Drawing I – Introduction to Drawing (3)

LIST A: Select 1 course from the following: (3 units)*

- AHIS 5, Latin American Art History 1 (3)
- AHIS 6, Latin American Art History 2 (3)
- AHIS 15, Mexican Art History (3)
- AHIS 17, Arts of Asia (3)
- AHIS 18, Introduction to African Art History (3)

*Students who completed Art History 11 fall 2012 through fall 2013 and have maintained continuous enrollment may use it to fulfill this area requirement.

LIST B: Select 1 course from the following: (3 units)

- ART 10A, Design I (3)
- ART 13, 3D Design (3)
- ART 21A, Figure Drawing I (3)
- ART 21B, Figure Drawing II (3)
- ART 40A, Sculpture I (3)
- ART 40B, Sculpture II (3)
- ART 40C, Sculpture III (3)
- ART 52A, Ceramics I (3)
- ART 52B, Ceramics II (3)
- ART 52C, Ceramics III (3)
- PHOTO 1, Introduction to Photography (3)

LIST C: Select one course from the following: (3-5 units)
 Students may select any course not already used in List A or B, or one course that meets the following criteria:

- ART 10B, Principles of Design (3)
- ART 10C, Digital Media (3)
- ART 15, Lettering (3)
- ART 17A, 3D Jewelry Design I (3)
- ART 17B, 3D Jewelry Design II (3)
- ART 20B, Drawing II – Drawing with Color (3)
- ART 20C, Digital Drawing (3)
- ART 30A, Beginning Watercolor Painting I (3)
- ART 30B, Watercolor Painting II (3)
- ART 30C, Acrylic Painting Techniques (3)
- ART 31, Beginning Oil Painting (3)
- ART 32, Intermediate Painting (3)
- ART 33, Figure Painting (3)
- ART 34A, New Genres (3)
- ART 34B, Contemporary Art Theory and Practice (3)
- ART 35, Airbrush Techniques (3)
- ART 41A, Figure Modeling Sculpture I (3)
- ART 41B, Figure Modeling Sculpture II (3)
- ART 43A, Glass Sculpture I (3)
- ART 43B, Glass Sculpture II (3)

- ART 60, Introduction to Printmaking (3)
 ART 60B, Introduction to Digital Printing (3)
 ART 61A, Etching (3)
 ART 61B, Advanced Etching (3)
 ART 62, Serigraphy (Silkscreen) (3)
 ART 63, Lithography (3)
- Any CSU transferable AHIS course
 - Any Art or Humanities course articulated as CSU GE, Area C1 or IGETC Area 3A;
 - Any course articulated as CSU GE, Area C1 or IGETC Area 3B in a language other than English (except ASL); Art, History, Humanities, Philosophy; Religion/Religious Studies;
 - Any course articulated as CSU GE, Area D1, D3, D4, or D6 or IGETC Area 4 courses in Anthropology and Archeology, Ethnic Studies, Gender Studies, History.

Asian Studies

See *Modern Languages*

Astronomy

Astronomers study the solar system, stars, galaxies, and space using principles of physics and mathematics. Their work adds to the basic scientific knowledge about the nature of the universe and also provides a basis for improvement in such areas as aircraft navigation and satellite communication. They study planets, stars, novae, and colliding gases between stars in an attempt to find out how they were formed, what they are made of, and how they change. They measure light, radio and x-ray emissions from space sources. Astronomers can advance to director of an observatory or science center.

Programs Offered:

- Transfer Preparation
- See also Physics
- See also Science: General Science Associate Degree

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. Astronomy is typically affiliated with the Physics and Astrophysics fields. Therefore students are encouraged to explore those areas for transfer opportunities as well. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

Athletic Coaching

See *Kinesiology/Physical Education*

Automotive Technology

This program — offered through the SMC Business Department — prepares students to work in positions troubleshooting and repairing electronic and mechanical vehicle problems.

Programs Offered:

- Transfer Preparation
- Automotive Technician – Introductory Department Certificate (12 units)

TRANSFER PREPARATION

Students seeking a baccalaureate in this area of study are encouraged to review the Bachelor of Science in Automotive Technology offered by Rio Hondo College at riohondo.edu/autotechbachelor

AUTOMOTIVE TECHNICIAN – INTRODUCTORY, DEPARTMENT CERTIFICATE

Students who complete this short-term program may work in positions troubleshooting and repairing electronic and mechanical vehicle problems. Employees in these basic positions in today's automotive maintenance shop operate sophisticated tools and equipment and practice safe work practices under the guidance of more experienced technicians. Students wishing to take more advanced training may transfer their SMC courses to Rio Hondo College and to Cerritos College's Advanced Transportation Program.

Students must petition the Business Department to obtain this Department Certificate.

Program Learning Outcomes: Upon completion of the program, students will be able to apply basic diagnostic techniques, maintenance procedures, and repair skills to automotive electrical, braking, and suspension and steering systems.

Required Courses:

- AUTO 40, Automotive Maintenance and Operations (3)
- AUTO 45, Automotive Braking Systems (3)
- AUTO 46, Automotive Electrical Systems (3)
- AUTO 47, Suspension and Steering (3)

Bicycle Maintenance – Noncredit

This noncredit program is designed to introduce students to the basics of bicycle maintenance and provide a pathway to jobs as entry-level mechanics, bicycle sales positions, or bicycle shop management. Areas to be covered include introduction to small business operations, technical and mechanical skill development, drive-train design and maintenance, wheel and hub systems, brake systems, suspensions, handlebar and stem assembly, and an introduction to "pedal-assist," electric, and light electric vehicle (LEV) technologies. This program will also explore the various career pathways in the bicycle industry at the local, national, and international levels. *This Certificate of Completion is not intended as a substitute for any credit certificate or Associate degree.*

Program Offered:

- Bicycle Maintenance Certificate of Completion (Noncredit)

BICYCLE MAINTENANCE, CERTIFICATE OF COMPLETION (NONCREDIT)

Program Learning Outcomes: Upon completion of the program, students will be able to assemble new bicycles, repair bicycles and help customers select bicycles that fit their body sizes and intended bicycle use.

Required Courses:

- BCYCLE 901, Bicycle Maintenance Level 1 (0)
- BCYCLE 902, Bicycle Maintenance Level 2 (0)

Biological Sciences

This major can lead to many biological science careers. Medical laboratory technicians work in a clinical laboratory and perform routine tests to obtain data used by physicians and other medical staff in the prevention, diagnosis, and treatment of illness. Bioscience technicians conduct tests and analyze data for use in research and production. Some additional careers include genetic counselors, environmental health specialists, medical illustrators, microbiologists, toxicologists, wildlife biologists, and teachers.

Programs Offered:

- Transfer Preparation
- See also Environmental Science
- See also Science: General Science

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

The **University of California system has a transfer pathway** for any UC campus that offers Biochemistry, Biology, Cell Biology, and Molecular Biology. For more information, visit pathwaysguide.universityofcalifornia.edu

PLEASE NOTE: Due to the competitive nature of Biology, students are advised to complete as many lower-division courses as possible prior to transfer. Please see a counselor for more information.

Biology

See *Biological Sciences*

Botany

See *Biological Sciences*

Broadcasting

See *Media Studies*

Business

Business managers coordinate business activities in both private industry and public agencies. They are responsible for operations, maintenance, purchasing, planning, organizing, budgeting, and directing the work of the employees. Business executives are the higher-level management staff, directing the activities of the firm. They develop and administer policies to maximize profits. They also direct financial programs and develop policies aimed at maintaining good relations with the public, stockholders, employees, and customers.

Programs Offered:

- Transfer Preparation

Degrees and Certificates

- Business
 - Business Administration Associate Degree for Transfer

Students may satisfy the requirements of this degree with approved courses (which may be fewer units) taken at other California Community Colleges. The courses below are SMC courses. If completed entirely at SMC, the academic or career path requires 29 units.
 - Business Associate Degree
 - Entry Level Business Information Assistant Certificate of Achievement (12 units)
- Entrepreneurship
 - Entrepreneurship Certificate of Achievement (18 units)
 - Salon Business: Salon Entrepreneurship (see *Cosmetology*)
- Insurance
 - Insurance Professional Associate Degree
 - Insurance Professional Certificate of Achievement (26 units)
 - Insurance Specialist Certificate of Achievement (11 units)
- International
 - International Business Certificate of Achievement (18 units)
- Logistics
 - Logistics and Supply Chain Management Associate Degree
 - Logistics and Supply Chain Management Certificate of Achievement (24 units)
- Management
 - Management and Leadership Associate Degree
 - Management and Leadership Certificate of Achievement (24 units)
- Marketing
 - Marketing Certificate of Achievement (18 units)
- Sales and Promotion

- Sales and Promotion (*formerly Merchandising*) Associate Degree
- Sales and Promotion (*formerly Merchandising*) Certificate of Achievement (24 units)

NOTE: There are three or four Core courses in all Business Certificates of Achievement (except Insurance Specialist). These Core courses are required for all students, and should be completed BEFORE taking Concentration courses. Moreover, Business 1 should be completed BEFORE enrolling in other Core courses.

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

The **University of California system has a transfer pathway** for any UC campus that offers Business Administration. For more information, visit pathwaysguide.universityofcalifornia.edu

SMC offers the **Business Administration Associate Degree for Transfer**. Students completing this degree are eligible for priority transfer admission consideration in the majors at many **California State University** campuses. In addition, students will be required to complete no more than 60 semester/90 quarter CSU units of coursework after transfer to complete the baccalaureate degree.

NOTE: Students considering transfer to a UC, private, or out-of-state school should consult a counselor BEFORE applying to transfer, as the transfer requirements may be different from those required for the Business Administration AS-T.

The most current list of CSU campuses accepting this Associate Degree for Transfer is available online at calstate.edu/transfer/ad-search/search.shtml

BUSINESS ADMINISTRATION, ASSOCIATE DEGREE FOR TRANSFER

Program Learning Outcomes: Upon completion of the program, students will demonstrate coherent and comprehensive analyses of business issues and identify and resolve ethical dilemmas in the domestic and global business environment.

Required Core Courses: (19 units)

- ACCTG 1, Introduction to Financial Accounting (5)
- ACCTG 2, Corporate Financial and Managerial Accounting (5)
- BUS 5, Business Law and the Legal Environment (3)
- ECON 1, Principles of Microeconomics (3)
- ECON 2, Principles of Macroeconomics (3)

Select 1 course from the following: (3 units minimum)

MATH 7, Calculus 1 (5)*

or

MATH 28, Calculus 1 for Business and Social Science (5)*

MATH 54, Elementary Statistics (4) (*Students transferring to CSU Northridge please note: CSUN Business department will NOT accept UCLA XL10 Statistics to satisfy the business statistics requirement*)

MATH 21, Finite Mathematics (3) (*satisfies area if completed fall 2015 or prior*).

Select 2 courses from the following if not used above: (5 units minimum)

BUS 1, Introduction to Business (3)

or

BUS 32, Business Communications (3)

CIS 4, Business Information Systems with Applications (3) (*CIS 1 is an acceptable substitution if taken prior to Winter 2019*)

MATH 7, Calculus 1 (5)*

or

MATH 28, Calculus 1 for Business and Social Science (5)*

MATH 54, Elementary Statistics (4) (*Students transferring to CSU Northridge: CSUN Business department will NOT accept UCLA XL10 Statistics to satisfy the business statistics requirement*)

MATH 21, Finite Mathematics (3) (*satisfies area if completed fall 2015 or prior*)

***Note: Maximum UC credit for MATH 7 and 28 is one course.**

Please note: Some CSU campuses may require more than one mathematics course. Go to assist.org for details.

BUSINESS, ASSOCIATE DEGREE

Please note: This is NOT the CSU transfer degree. For details about the Business Administration Associate in Science for Transfer (AS-T) to CSU, please see above.

This program prepares students for careers in business. Students can personalize their academic or career path by selecting any business courses below, or they can choose to focus on a particular area of study, including marketing, entrepreneurship, or finance. Business professionals are responsible for operations, maintenance, purchasing, planning, organizing, budgeting, and directing employees. Promotion to executive level positions may involve higher-level management of staff, as well as overseeing corporate activities such as financial programs and policies.

Program Learning Outcomes: Upon completion of the program, students will demonstrate coherent and comprehensive analyses of business issues, and identify and resolve ethical dilemmas in the domestic and global business environment.

Required Core Courses: (12 units minimum)

ACCTG 1, Introduction to Financial Accounting (5)

or

ACCTG 21, Business Bookkeeping (3)

BUS 1, Introduction to Business (3)

- BUS 5, Business Law and the Legal Environment (3)
 BUS 32, Business Communications (3)

Using the electives below, students may focus on a particular academic or career path (including Marketing, Insurance, Global Trade and Logistics, Entrepreneurship/Small Business Management, Finance, Management/Leadership, Retail/Hospitality/Tourism, and/or General Business) or may create their own academic or career path by selecting a combination of courses that meets career goals: (12 units minimum required)

Marketing

- BUS 20, Principles of Marketing (3)
 BUS 22, Introduction to Advertising (3)
 BUS 23, Principles of Selling (3)
 BUS 26, Marketing Research and Consumer Behavior (3)
 BUS 28, Marketing Promotion (3)
 BUS 29, Public Relations and Publicity (3) *(same as JOURN 43)*
 BUS 34A, Introduction to Digital Marketing (3) *(formerly BUS 34)*
 BUS 35, Customer Relationship Management (3)
 CIS 70, Digital Marketing Applications (3) *(same as BUS 34B)*
 MEDIA 18, Broadcast Advertising (3)

Insurance

- BUS 15, Introduction to Insurance with Code and Ethics (2)
 BUS 16, Personal Insurance (3)
 BUS 17, Property and Liability Insurance (3)
 BUS 18, Commercial Insurance (3)

Global Trade and Logistics

- BUS 50, Introduction to International Business (3)
 BUS 51, Intercultural Business Communication (3)
 BUS 52, International Marketing (3)
 BUS 53, Importing and Exporting (3)
 BUS 54, International Management (3)
 BUS 55, Southern California's International Connections and Blue/Ocean Economy (3)
 BUS 57, Introduction to Lean Six Sigma (3)
 BUS 80, Principles of Logistics (3)
 BUS 81, Transportation Management (3)
 BUS 82, Supply Chain Management (3)
 BUS 83, Operations Management (3)
 BUS 84, Introduction to Procurement (3)
 BUS 85, Project Management Global Trade and Logistics (3)
 BUS 86, Earned Value Management Systems (3)
 BUS 87, ERP System: Procurement (4)

Entrepreneurship and Small Business Management

- BUS 8, Law and Entrepreneurship (3)
 BUS 9, Intellectual Property for the Entrepreneur (3)
 BUS 10, Introduction to Intellectual Property (1)
 BUS 27, Introduction to E-Commerce (3) *(formerly same as CIS 27)*
 BUS 37, Business of Hip-Hop Industry (3)
 BUS 60, Design Thinking for the Entrepreneur (1)
 BUS 63, Principles of Entrepreneurship (3)

Finance

- ACCTG 45, Individual Financial Planning (3) *(same as BUS 45)*
 BUS 45, Individual Financial Planning (3) *(same as ACCTG 45)*
 BUS 46, Introduction to Investments (3)
 BUS 47, Understanding Money for Lifelong Success (1) *(same as COUNS 47)*
 COUNS 47, Understanding Money for Lifelong Success (1) *(same as BUS 47)*

Management/Leadership

- BUS 65, Management Principles (3)
 BUS 67, Business Strategies (3)
 BUS 72, Organizational Management and Leadership (3)
 BUS 76, Human Resources Management (3)
 BUS 79, Bargaining and Negotiations (3)

Retail/Hospitality/Tourism

- BUS 11, Introduction to the Hospitality Industry (3)
 BUS 21, Merchandising Principles (3)
 BUS 25, Advertising Display (3)
 BUS 36A, Customer Service in the Digital Age (3)

General Business

- BUS 6, Advanced Business Law (3) *(formerly same as ACCTG 26)*
 BUS 7, Introduction to Sustainability in Business (3)
 BUS 7B, Sustainability Reporting in Business (3)
 BUS 7D, Business Strategies and Social Sustainability (3)
 BUS 14A, Women in Business (3)
 BUS 40A, Introduction to Business Analytics (3)
 BUS 56, Understanding the Business of Entertainment (3)
 BUS 59, Design for Delight for the Entrepreneur (3)
 BUS 62, Human Relations and Ethical Issues in Business (3)
 BUS 64, Business Protocol and Professionalism (1)
 BUS 69, Success in the Gig Economy (1)

ENTRY LEVEL BUSINESS INFORMATION

ASSISTANT, CERTIFICATE OF ACHIEVEMENT

Companies in various industries require employees who have basic business information systems and bookkeeping skills and can effectively communicate and interact with customers at an entry-level position.

Program Learning Outcomes: Upon completion of this program, students will demonstrate the ability to utilize business information systems, perform basic bookkeeping, communicate professionally in a business environment, and interact successfully with customers.

Required Courses: (12 units)

- ACCTG 21, Business Bookkeeping (3)
 BUS 35, Customer Relationship Management (3)
 CIS 4, Business Information Systems with Applications (3)

 BUS 31, Business English Fundamentals (3)

or

BUS 32, Business Communications (3)

ENTREPRENEURSHIP, CERTIFICATE OF ACHIEVEMENT

This program provides students the opportunity to develop the skills needed to analyze business issues and explore their own entrepreneurial vision as they produce a thorough business plan. The coursework leads to a strong foundation in entrepreneurship. SMC collaborates with the National Association for Community College Entrepreneurship (NACCE).

Program Learning Outcomes: Upon completion of the program, students will demonstrate coherent and comprehensive analyses of business issues, identify and resolve ethical dilemmas in the domestic and global business environment, and produce a thorough written business plan.

Required Core Courses: (12 units)

ACCTG 1, Introduction to Financial Accounting (5)

or

ACCTG 21, Business Bookkeeping (3)

or

CIS 35A, QuickBooks Desktop (3) *(formerly CIS 35; formerly same as ACCTG 35)*

or

CIS 35B, QuickBooks Online (3)

BUS 1, Introduction to Business (3)

BUS 5, Business Law and the Legal Environment (3)

or

BUS 8, Law for the Entrepreneur (3)

or

BUS 9, Intellectual Property for the Entrepreneur (3)

BUS 63, Principles of Entrepreneurship (3)

Select two or more courses from the following if not used above for a total of at least 6 units.

ACCTG 45, Individual Financial Planning (3) *(same as BUS 45)*

BUS 7, Introduction to Sustainability in Business (3)

BUS 8, Law and Entrepreneurship (3)

BUS 9, Intellectual Property for the Entrepreneur (3)

BUS 10, Introduction to Intellectual Property (3)

BUS 20, Principles of Marketing (3)

BUS 23, Principles of Selling (3)

BUS 27, Introduction to E-Commerce (3) *(formerly same as CIS 27)*

BUS 32, Business Communications (3)

BUS 34A, Introduction to Digital Marketing (3) *(formerly BUS 34)*

BUS 45, Individual Financial Planning (3) *(same as ACCTG 45)*

BUS 50, Introduction to International Business (3)

BUS 53, Importing and Exporting (3)

BUS 56, Understanding the Business of Entertainment (3)

BUS 59, Design for Delight for the Entrepreneur (3)

BUS 60, Design Thinking for the Entrepreneur (1)

BUS 65, Management Principles (3)

BUS 69, Success in the Gig Economy (1)

CIS 70, Digital Marketing Applications (3) *(same as BUS 34B)*

BUS 80, Principles of Logistics (3)

or

BUS 82, Supply Chain Management (3)

INSURANCE PROFESSIONAL, ASSOCIATE DEGREE OR CERTIFICATE OF ACHIEVEMENT

This program prepares students for highly skilled positions in the insurance industry, such as claims adjuster, examiner, investigator, salesperson, legal support worker, or insurance underwriter. Course offerings include personal insurance, property and liability insurance, commercial insurance, and ethics, among others.

Program Learning Outcomes: Upon completion of this program, students will demonstrate coherent and comprehensive understanding of various types of insurance products, including personal, property and liability, and commercial insurance.

Required Courses:

ACCTG 1, Introduction to Financial Accounting (5)

or

ACCTG 21, Business Bookkeeping (3)

BUS 1, Introduction to Business (3)

BUS 5, Business Law and the Legal Environment (3)

BUS 15, Introduction to Insurance with Code and Ethics (2)

BUS 16, Personal Insurance (3)

BUS 17, Property and Liability Insurance (3)

BUS 18, Commercial Insurance (3)

BUS 32, Business Communications (3)

CIS 30, Microsoft Excel (3)

or

ACCTG 31A, Excel for Accounting (3)

INSURANCE SPECIALIST, CERTIFICATE OF ACHIEVEMENT

This program prepares students for highly skilled positions in the insurance industry, such as claims adjuster, examiner, investigator, salesperson, legal support worker, or insurance underwriter. Course offerings include personal insurance, property and liability insurance, commercial insurance, and ethics, among others.

Program Learning Outcomes: Upon completion of this program, students will demonstrate coherent and comprehensive understanding of various types of insurance products, including personal, property, and liability, and commercial insurance.

Required Courses:

BUS 15, Introduction to Insurance with Code and Ethics (2)

BUS 16, Personal Insurance (3)

BUS 17, Property and Liability Insurance (3)

BUS 18, Commercial Insurance (3)

INTERNATIONAL BUSINESS, CERTIFICATE OF ACHIEVEMENT

This program prepares students with the skills, knowledge, and training for entry-level positions in multi-national companies, and incorporates global business perspectives into their current assignment. The student's knowledge and skills will include the ability to analyze global business

opportunities, as well as interact with others from different cultures. Individuals are able to prepare basic international commercial and shipping documents, as well as understand the issues that are involved in a global business operation.

Program Learning Outcomes: Upon completion of the program, students will be able to analyze global business opportunities; compare and contrast the role that culture plays in global business operations; describe and compare international commercial and shipping documents; resolve ethical dilemmas in the domestic and global business environment; and apply business principles to international trade issues in the context of global citizenship.

Required Core Courses: (9 units)

- BUS 1, Introduction to Business (3)
- BUS 53, Importing and Exporting (3)
- BUS 54, International Management (3)

Select 3 courses from the following: (9 units)

- BUS 50, Introduction to International Business (3)

- BUS 51, Intercultural Business Communication (3)

or

- COM ST 37, Intercultural Communication (3)

- BUS 52, International Marketing (3)
- BUS 57, Introduction to Lean Six Sigma (3)
- BUS 80, Principles of Logistics (3)
- BUS 81, Transportation Management (3)
- BUS 82, Supply Chain Management (3)
- BUS 83, Operations Management (3)
- BUS 84, Introduction to Procurement (3)
- BUS 85, Project Management Global Trade and Logistics (3)
- BUS 87, EPR System: Procurement (4)

LOGISTICS AND SUPPLY CHAIN MANAGEMENT, ASSOCIATE DEGREE OR CERTIFICATE OF ACHIEVEMENT

This program provides students the opportunity to develop skills in the growing field of logistics and supply chain management. Students will learn about the flow and movement that organizations utilize to produce and deliver their products and services. Logistics and supply chain touches all aspects of a company's operations — from the movement of raw materials, energy, goods, and money, to people, satellites, information, and an array of operational tools. SMC's Logistics and Supply Chain Management degree will prepare students for a career in the growing field of global trade and logistics and supply chain. Our program partners with PRO-GTL to enhance education and business partnerships for optimal job opportunities.

Program Learning Outcomes: Upon completion of this program, students will demonstrate coherent and comprehensive understanding of logistics, supply chain management, production and processing, production processes, quality control, scheduling, inventory management, transportation, costs, and techniques for maximizing the effective manufacture and distribution of goods and services for present and future systems.

Required Core Courses: (12 units)

- BUS 1, Introduction to Business (3)

- BUS 32, Business Communications (3)
- BUS 80, Principles of Logistics (3)
- BUS 82, Supply Chain Management (3)

Select 3 courses from the following: (9 units)

- BUS 57, Introduction to Lean Six Sigma (3)
- BUS 81, Transportation Management (3)
- BUS 83, Operations Management (3)
- BUS 84, Introduction to Procurement (3)
- BUS 85, Project Management Global Trade and Logistics (3)
- BUS 86, Earned Value Management Systems (3)
- BUS 87, EPR System: Procurement (4)

Select 1 courses from the following: (3 units)

- ACCTG 31A, Excel for Accounting (3)
- ACCTG 31B, Advanced Excel for Accounting (3)
- CIS 30, Microsoft Excel (3)
- CIS 34, Advanced Excel with Visual Basic for Applications (3)

MANAGEMENT/LEADERSHIP, ASSOCIATE DEGREE OR CERTIFICATE OF ACHIEVEMENT

With the constantly growing variety of businesses in the world, business management career opportunities are vast and diverse. SMC's Management and Leadership program prepares students for this unlimited field with solid analytical skills, training in methods for resolving problems, and the managerial skills required for planning and executing strategies in pursuit of organizational goals.

Program Learning Outcomes: Upon completion of the program, students will demonstrate coherent and comprehensive analyses of business issues, identify and resolve ethical dilemmas in the domestic and global business environment, and apply managerial skills in planning, organizing, directing, and controlling business enterprises in the domestic and global environments.

Required Core Courses: (12 units)

- BUS 1, Introduction to Business (3)
- BUS 5, Business Law and the Legal Environment (3)
- BUS 32, Business Communications (3)
- BUS 65, Management Principles (3)

Select 4 courses from the following: (12 units)

- BUS 36A, Customer Service in the Digital Age (3)

- BUS 51, Intercultural Business Communication (3)

or

- COM ST 37, Intercultural Communication (3)

- BUS 54, International Management (3)
- BUS 62, Human Relations and Ethical Issues in Business (3)
- BUS 67, Business Strategies (3)
- BUS 72, Organizational Management and Leadership (3)
- BUS 76, Human Resources Management (3)
- BUS 79, Bargaining and Negotiations (3)

MARKETING, CERTIFICATE OF ACHIEVEMENT

Every company needs effective marketing to succeed. Our program trains students to analyze business issues, solve problems, develop effective marketing strategies for designated target audiences, and employ the various elements of the marketing mix to achieve specific goals.

Program Learning Outcomes: Upon completion of the program, students will demonstrate coherent and comprehensive analyses of business issues; identify and resolve ethical dilemmas in the domestic and global business environments; and develop an effective marketing strategy that includes a target audience and all elements of the marketing mix.

Required Core Courses: (6 units)

- BUS 1, Introduction to Business (3)
- BUS 20, Principles of Marketing (3)

Select 4 or more courses from the following: (12 units minimum)

- BUS 22, Introduction to Advertising (3)
- BUS 23, Principles of Selling (3)
- BUS 26, Marketing Research and Consumer Behavior (3)
- BUS 28, Marketing Promotion (3)
- BUS 29, Public Relations and Publicity (3) (*same as JOURN 43*)
- BUS 32, Business Communications (3)
- BUS 34A, Introduction to Digital Marketing (3) (*formerly BUS 34*)
- BUS 35, Customer Relationship Management (3)
- BUS 37, Business of Hip-Hop Industry (3)
- BUS 52, International Marketing (3)
- BUS 59, Design for Delight for the Entrepreneur (3)
- BUS 60, Design Thinking for the Entrepreneur (1)
- CIS 70, Digital Marketing Applications (3) (*same as BUS 34B*)

SALES AND PROMOTION (FORMERLY MERCHANDISING), ASSOCIATE DEGREE OR CERTIFICATE OF ACHIEVEMENT

This program prepares students for careers in sales and other contemporary marketing responsibilities. Sales promotion techniques are examined as students develop skills in the modern sales process. Developing a strategic approach to customer relationship management and the lifetime value of the customer will equip students with the mindset to succeed in today's dynamic marketplace.

Program Learning Outcomes: Upon completion of the program, students will demonstrate coherent and comprehensive analyses of business issues, identify and resolve ethical dilemmas in the domestic and global business environment, and develop a sales and promotion plan that incorporates elements of the promotion mix, including social media and an engaging oral and written sales presentation.

Required Core Courses: (21 units)

- BUS 1, Introduction to Business (3)
- BUS 20, Principles of Marketing (3)
- BUS 22, Introduction to Advertising (3)
- BUS 23, Principles of Selling (3)
- BUS 28, Marketing Promotion (3)
- BUS 32, Business Communications (3)
- BUS 34A, Introduction to Digital Marketing (3) (*formerly BUS 34*)

Select 1 course from the following: (3 units)

- BUS 5, Business Law and the Legal Environment (3)
- or**
- BUS 8, Law for the Entrepreneur (3)
-
- BUS 21, Merchandising Principles (3)

- BUS 25, Advertising Display (3)
- BUS 27, Introduction to E-Commerce (3) (*formerly same as CIS 27*)
- BUS 37, Business of Hip-Hop Industry (3)
- BUS 59, Design for Delight for the Entrepreneur (3)
- BUS 62, Human Relations and Ethical Issues in Business (3)
- CIS 70, Digital Marketing Applications (3) (*same as BUS 34B*)

Business – Noncredit

Programs Offered:

- Business Essentials Level 1 Certificate of Completion (Noncredit)
- Customer Service Certificate of Completion (Noncredit)

BUSINESS ESSENTIALS LEVEL 1, CERTIFICATE OF COMPLETION (NONCREDIT)

Careers in business are often one of the most sought after opportunities. Business activity is all around us, as it affects our daily lives as we work, invest and play. Consequently, people want to learn about business and its intricacies. This program will introduce students to the functional areas of business and the role of entrepreneurship in our economy.

Program Learning Outcomes: Upon completion of the program, students will demonstrate a general understanding of business concepts, as well as have developed their own entrepreneurial business mindset.

Required Courses:

- BUS 901, Introduction to Business – Basic (0)
- BUS 902, Introduction to Business Mindset (0)

CUSTOMER SERVICE, CERTIFICATE OF COMPLETION (NONCREDIT)

This program in Customer Service provides marketable business knowledge and professional skills to individuals currently seeking employment in various customer driven industries. The business environment demands that companies provide customers with quick, efficient, correct service that is intended to be delightfully memorable. This program introduces students to the theories of the customer service exchange and their practical application during a customer encounter.

Program Learning Outcomes: Upon completion of the program, students will demonstrate the comprehensive analysis of a customer encounter and address or resolve the situation using effective customer service techniques.

Required Courses:

- BUS 911, Customer Service Level 1 (0)
- BUS 912, Customer Service Level 2 (0)

Chemistry

Chemists study the properties of matter and make qualitative and quantitative analysis of many substances. They conduct a variety of experiments and tests in laboratories to develop new knowledge or maintain control over the quality of existing products and procedures. Chemists may

work in research and development, or production and quality control in the chemical manufacturing industry, and in education or government institutions.

Programs Offered:

- Transfer Preparation
- See also Science: General Science

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

The **University of California system has a transfer pathway** for any UC campus that offers Biochemistry and Chemistry. For more information, visit pathwaysguide.universityofcalifornia.edu

Chinese

See *Modern Languages*

Communication Studies

Students following an academic or career path in Communication and Media Studies will learn the dynamics of communication between and among individuals, groups and cultures, and/or the media. Communication integrates courses in interpersonal, intercultural, organizational and mass communication and public relations. There is a wide range of employment possibilities for students trained in media studies in business, sales, public and personnel relations, and advertising. Students can prepare for careers in media news writing and editing, announcing, programming, publicity, community relations, directing and public relations.

Students following an academic or career path in Speech and Communication Studies can pursue a variety of careers depending on their interests. Public relations and advertising firms, health care organizations, government and educational institutions, entertainment companies, social service groups, and media-based firms are just some examples of organizations having a need for people with highly developed interpersonal and technical communication skills. Current career titles include communication consultant, public information officer, public relations specialist, political consultant, press secretary, labor relations specialist, public opinion researcher, news producer, speech/language pathologist, speechwriter, advertising account executive, media manager, human resources manager, mediator, special events coordinator and development officer/fundraiser.

Programs Offered:

- Transfer Preparation
- Communication Studies Associate Degree for Transfer
- See also Journalism
- See also Media Studies

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

The **University of California system has a transfer pathway** for any UC campus that offers Communication. For more information, visit pathwaysguide.universityofcalifornia.edu

SMC offers the **Communication Studies Associate Degree for Transfer**. Students completing this degree are eligible for priority transfer admission consideration in the majors at many **California State University** campuses. In addition, students will be required to complete no more than 60 semester/90 quarter CSU units of coursework after transfer to complete the baccalaureate degree.

NOTE: Students considering transfer to a UC, private, or out-of-state school should consult a counselor BEFORE applying to transfer, as the transfer requirements may be different from those required for the Communication Studies AA-T.

The most current list of CSU campuses accepting this Associate Degree for Transfer is available online at calstate.edu/transfer/adt-search/search.shtml

COMMUNICATION STUDIES, ASSOCIATE DEGREE FOR TRANSFER

Upon completion of the Associate in Arts in Communication Studies for Transfer (AA-T), students will have a strong academic foundation in the field and be prepared for upper-division baccalaureate study. Completion of the degree indicates that the student will have satisfied the lower-division requirements for transfer into Communication Studies or similar majors for many campuses in the California State University system.

Students pursuing the Associate in Arts In Communication Studies for Transfer will demonstrate, through written and oral academic work, knowledge of communication principles, concepts, and theories and be prepared to pursue further study in communication studies or a similar major at the baccalaureate level at the California State University.

Program Learning Outcomes: Upon completion of the program, students will be able to analyze and demonstrate the relationship between speaker, audience, message, and medium in a variety of communication contexts. Students will also be able to identify, analyze, and demonstrate

appropriate conflict management styles in both interpersonal and intercultural forums.

Required Core Course: (3 units)

COM ST 11, Elements of Public Speaking (3)

LIST A: Select 2 courses from the following: (6 units)

COM ST 16, Fundamentals of Small Group Discussion (3)

COM ST 21, Argumentation (3)

COM ST 35, Interpersonal Communication (3)

LIST B: Select 2 of the following: (6 units)

Any course not already used above and/or:

COM ST 12, Persuasion (3)

COM ST 14, Oral Interpretation: Performing Literature Across Cultures (3)

COM ST 30, Introduction to Communication Theory (3)

COM ST 37, Intercultural Communication (3)

ENGL 2, Critical Analysis and Intermediate Composition (3)

FILM 1, Film Appreciation: Introduction to Cinema (3)

MATH 54, Elementary Statistics (4)

MEDIA 1, Survey of Mass Media Communications (3)

PSYCH 5, The Psychology of Communication (3)

LIST C: Select 1 course from the following: (3 units)

Any course not already used above or any one of the following:

ANTHRO 2, Cultural Anthropology (3)

COM ST 9, Introduction to Communication Studies (3)

COM ST 13, Voice and Diction (3)

COM ST 31, Research Methods for Communication Studies (3)

COM ST 36, Gender and Communication (3)

ENGL 2, Critical Analysis and Intermediate Composition (3)

HIST 1, History of Western Civilization I (3)

HIST 2, History of Western Civilization II (3)

JOURN 1, The News (3)

PSYCH 1, General Psychology (3)

SOCIOL 1, Introduction to Sociology (3)

SOCIOL 1s, Introduction to Sociology – Service Learning (3)

Computer Information Systems

Computer information systems managers oversee a variety of administrative, clerical, and accounting functions necessary to efficiently run and maintain computerized business systems. Office workers use a variety of software to produce correspondence, maintain databases, manage projects, organize meetings, manage financial records, and create presentations. Students focusing on web applications attain the skills to professionally design, develop, and manage websites.

Programs Offered:

- Transfer Preparation
- Business Information Worker 2 Associate Degree
- Computer Business Applications Associate Degree
- Website Software Specialist Associate Degree
- Business Information Worker 1 Certificate of Achievement (21 units)

- Business Information Worker 2 Certificate of Achievement (18 units)
- Computer Business Applications Certificate of Achievement (30 units)
- Website Software Specialist Certificate of Achievement (31 units)
- Digital Publishing Certificate of Achievement (20 units)
- Social Media Assistant Certificate of Achievement (15 units)
- Website Creator Certificate of Achievement (15 units)
- Website Development Management Department Certificate (13 units)

TRANSFER PREPARATION

Students planning to transfer to a four-year college or university should refer to the transfer preparation information under Business.

BUSINESS INFORMATION WORKER 2, ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT

The Business Information Worker 2 (BIW-2) program builds on the BIW I foundation. The program provides students with additional skills in PowerPoint, QuickBooks, records management, and collaboration software. Graduates of this second stage in the BIW pathway program will be prepared to meet the workforce demands of today's business environment such as office, business, and executive administrative support, office supervision/coordination, small business support, retail sales, and customer service. Students completing the BIW pathway will be equipped to take multiple Microsoft Office Specialist credentials exams and become a QuickBooks certified user.

Program Learning Outcomes: Upon completion of the program, students will demonstrate proficiency in Microsoft Office applications, collaboration software, and QuickBooks; applying professional customer relationship and management techniques in a business environment; and employ interpersonal and critical thinking skills as well as problem solving.

Required Courses: (18 units)

BUS 35, Customer Relationship Management (3)

CIS 30, Microsoft Excel (3)

CIS 32, Microsoft Access (3)

CIS 35A, QuickBooks Desktop (3) *(formerly CIS 35; formerly same as ACCTG 35)*

or

CIS 35B, QuickBooks Online (3)

CIS 38, Microsoft PowerPoint (3)

OFTECH 33, Records Management (2)

and

CIS 36M, Adobe Acrobat (1)

COMPUTER BUSINESS APPLICATIONS, ASSOCIATE DEGREE OR CERTIFICATE OF ACHIEVEMENT

The core of this program provides advanced computer skills and business concepts that can be applied in nearly every industry. Students will learn to use Microsoft Office prod-

ucts, as well as other computer software applications, that can be applied in business situations to create, edit, format, and publish documents, spreadsheets, presentations, and databases.

Students can select from three specializations within the Computer Business Applications program:

- **Social Media Specialist** students will be introduced to the finer points of the most popular social media applications, including search engine optimization, HTML and web design.
- **Office Finance Specialist** students will develop the skills necessary to handle basic accounting and bookkeeping procedures for small businesses.
- **Microsoft Office Specialist** students will develop additional expertise in each of the Microsoft Office applications. This specialization assists in preparation for the Microsoft Office Specialist (MOS) certification exams.

Program Learning Outcomes: Upon completion of the program, students will be able to analyze different types of business information, use the Internet to support findings, and use software applications to produce various business reports and presentations used in industry of concentration area.

Required Courses: (21 units)

- BUS 1, Introduction to Business (3)
- CIS 1, Introduction to Computer Information Systems (3)
- CIS 4, Business Information Systems with Applications (3)
- CIS 37, Microsoft Word (3)
- CIS 39, MS Outlook – Comprehensive Course (3)
- OFTECH 5, English Skills for the Office (3)
-
- OFTECH 1, Keyboarding I (3)
- or**
- OFTECH 10, Skill Building on the Keyboard (3)

Complete one of the following specialization tracks listed below based on career interest: (9 units)

Track 1: Social Media Specialist

- BUS 34A, Introduction to Digital Marketing (3)
(formerly BUS 34)
- CIS 50, Internet, HTML, and Web Design (3)
- CIS 70, Digital Marketing Applications (3) (same as BUS 34B)

Track 2: Office Finance Specialist

- CIS 30, Microsoft Excel (3)
-
- ACCTG 1, Introduction to Financial Accounting (5)
- or**
- ACCTG 21, Business Bookkeeping (3)
-
- CIS 35A, QuickBooks Desktop (3) (formerly CIS 35)
- or**
- CIS 35B, QuickBooks Online (3)
-

Track 3: Microsoft Office Specialist

- CIS 30, Microsoft Excel (3)
- CIS 32, Microsoft Access (3)
- CIS 38, Microsoft PowerPoint (3)

WEBSITE SOFTWARE SPECIALIST, ASSOCIATE DEGREE OR CERTIFICATE OF ACHIEVEMENT

A website software specialist designs, develops, and manages websites with the skills needed to be successful in today's job market. A website software specialist needs to be knowledgeable in variety of Internet technologies (HTML, CSS, JavaScript, and server-side scripting), as well as web-authoring applications such as Dreamweaver, Photoshop, and WordPress. These specialists are primarily responsible for developing user friendly and interactive webpages, integrating and optimizing different multimedia components, and implementing hosting, publishing, and development workflow strategies.

Program Learning Outcomes: Upon completion of the program, students will learn a variety of Internet technologies and web-authoring tools for website development and maintenance. Students will gain the necessary knowledge and skills for designing, developing, and managing websites.

Required Courses:

- CIS 1, Introduction to Computer Information Systems (3)
- CIS 50, Internet, HTML, and Web Design (3)
- CIS 51, HTML5, CSS3, and Accessibility (3)
- CIS 54, Web Development and Scripting (3)
- CIS 55, Advanced Webpage Development and Scripting (3)
- CIS 57, Website Planning and Production (3)
- CIS 59A, Dreamweaver I (3)
- CIS 60A, Photoshop I (3)
- CIS 67, WordPress (3)
- CIS 70, Digital Marketing Applications (3) (same as BUS 34B)
- CIS 88A, Independent Studies in CIS (1)

BUSINESS INFORMATION WORKER 1, CERTIFICATE OF ACHIEVEMENT

This program prepares students for entry-level office and administrative support in a variety of job positions, including general office clerks, retail salespersons, customer service representatives, receptionists, and information clerks. Students learn basic oral and written communications, basic computer application skills, including beginning Excel, Word, and Outlook, and the fundamentals of computer systems. Graduates of this program bring critical thinking and problem solving skills as well as interpersonal skills essential to the workplace. With a solid foundation in Microsoft Windows and Office, as well as strong digital and web literacy skills, students will be prepared to meet the workforce demands of today's business environment.

Program Learning Outcomes: Upon completion of the program, students will demonstrate proficiency in Windows, Microsoft Office applications, as well as strong digital and web literacy skills; be able to apply professional communication techniques in an office environment; and employ interpersonal and critical thinking skills, as well as problem-solving.

Required Courses: (21 units)

- BUS 32, Business Communications (3)
- BUS 62, Human Relations and Ethical Issues in Business (3)
- CIS 1, Introduction to Computer Information Systems (3)

CIS 30, Microsoft Excel (3)
 CIS 37, Microsoft Word (3)
 CIS 39, MS Outlook - Comprehensive Course (3)
 OFTECH 1, Keyboarding I (3)

DIGITAL PUBLISHING, CERTIFICATE OF ACHIEVEMENT

This program provides students with students with specific skills that make them job ready for the publishing industry, whether it is for printing or the web. Digital publishing specialists use Adobe Photoshop, InDesign, and Illustrator programs, along with Microsoft Word, to format and combine text, numeral data, photographs, charts, drawings, and other visual graphic elements to produce digital and/or printed publication-ready materials.

Program Learning Outcomes: Given client data, students will utilize marketing research tools, apply creative techniques, choose and utilize appropriate software program(s), and analyze and solve graphic design and page layout problems to produce an effective publication. Also, working as a member of a digital publishing team, students will demonstrate professional work habits, meet scheduled timeline milestones and deadlines, and communicate effectively via oral presentations and written documents.

Required Courses: (19 units)

CIS 36M, Adobe Acrobat (1)
 CIS 37, Microsoft Word (3)
 CIS 38, Microsoft PowerPoint (3)
 CIS 40, InDesign (3)
 CIS 60A, Photoshop I (3)
 CIS 64, Illustrator (3)
 OFTECH 5, English Skills for the Office (3)

Select 1 unit from the following keyboarding courses: (1 unit minimum)

OFTECH 1, Keyboarding I (3)
 OFTECH 1A, Keyboarding 1A (1)
 OFTECH 1B, Keyboarding 1B (1)
 OFTECH 1C, Keyboarding 1C (1)
 OFTECH 9, Keyboarding Improvement (1)
 OFTECH 10, Skills Building on the Keyboard (3)

SOCIAL MEDIA ASSISTANT, CERTIFICATE OF ACHIEVEMENT

Social media has revolutionized the way businesses interact with consumers. This program is designed to give students an understanding of the concepts involved in marketing and the role social media plays in advertising, public relations, branding, and corporate communication strategies.

Students will gain practical skills and learn the latest technical tools in social media through various projects and other assignments.

Program Learning Outcomes: Upon completion of the program, students will demonstrate the difference between social media platforms, including functionality, target audience, and intended use.

Upon completion of the program, students will determine which social media platforms are best for their business and examine recent changes associated with popular social media platforms.

Required Courses:

MEDIA 20, Introduction to Media Writing and Producing Short-Form Content (3)

or

DMPOST 3, Digital Video Fundamentals (3)

BUS 34A, Introduction to Digital Marketing (3)
(formerly BUS 34)

CIS 50, Internet, HTML, and Web Design (3)

CIS 60A, Photoshop I (3)

CIS 70, Digital Marketing Applications (3) *(same as BUS 34B)*

WEBSITE CREATOR, CERTIFICATE OF ACHIEVEMENT

This certificate provides students with the basic skills needed to create websites. Students will use web authoring programs for webpage creation and site management. They will extend their skills in the development of websites through the use of XHTML, cascading style sheets, and client and server-side scripting. Focus will be on the creation of effective user interfaces and website design principles using various state-of-the-art technologies for the web. Upon completing this certificate, students will be ready to plan, build, promote, and maintain professional websites.

Program Learning Outcomes: Upon completion of the program, students will be ready to plan, build, promote, and maintain a professional website.

Required Courses:

CIS 50, Internet, HTML, and Web Design (3)
 CIS 51, HTML5, CSS3, and Accessibility (3)
 CIS 54, Web Development and Scripting (3)
 CIS 59A, Dreamweaver I (3)
 CIS 60A, Photoshop I (3)

WEBSITE DEVELOPMENT MANAGEMENT, DEPARTMENT CERTIFICATE

This program provides students with the knowledge needed to develop website projects in a real-world setting. Students learn how to develop websites while applying the skills needed to plan and budget resources in development projects from conceptual design to deployment.

Program Learning Outcomes: Upon completion of the program, students will demonstrate how to develop website projects in a real-world setting. Students will develop websites while applying the skills needed to plan and budget resources in development projects from conceptual design to deployment.

Required Courses:

CIS 9A, Technology Project Management I (3) *(same as CS 9A)*

CIS 9B, Technology Project Management II (3) *(same as CS 9B)*

CIS 56, Web Media Production (3)

CIS 57, Website Planning and Production (3)

CIS 88A, Independent Studies in CIS (1)

Computer Information Systems – Noncredit

Program Offered:

- Receptionist Certificate of Completion (Noncredit)

RECEPTIONIST, CERTIFICATE OF COMPLETION (NONCREDIT)

This certificate of completion will provide students with basic computer and Internet skills. Students will demonstrate proficiency in using basic Windows and Microsoft Office Online applications. Students will apply interpersonal customer services techniques in an office environment needed in hospitality, health, sales, and service industries. Upon the completion of this certificate, students can apply for positions such as front desk receptionist, customer service associate, receptionist, and front desk coordinator.

Program Learning Outcomes: Upon completion of the program, students will demonstrate proficiency in using basic Windows features, Microsoft Office Online applications, and basic Internet skills. Students will also know how to apply interpersonal and customer service techniques in an office environment.

Required Courses:

- BUS 911, Customer Services Level 1 (0)
- CIS 902, Basic Computer Skills (0)
- CIS 903, Fundamentals of Microsoft Office (0)

Computer Science

The field of computer science leads to a variety of careers that all require core computer science skills. These skills include theory courses such as Computer Hardware, Data Structures, and Networks, as well as programming in different computer languages. Within the field, areas of specialty lead into careers including software development, project management, system analysis, and maintenance among other areas. With the Internet being an integral part of everyday life, webpage authoring and web application development have been other areas of high demand in the job market.

Programs Offered:

- Transfer Preparation
- Cloud Computing Associate Degree
- Computer Programming Associate Degree
- Computer Science Associate Degree
- Database Applications Developer Associate Degree
- Web Developer Associate Degree
- Cloud Computing Certificate of Achievement (27 units)
- Computer Programming Certificate of Achievement (27 units)
- Computer Science Certificate of Achievement (23 units)
- Database Applications Developer Certificate of Achievement (27 units)
- Information Systems Management Certificate of Achievement (13 units)
- Mobile Apps Development – Android Certificate of Achievement (15 units)

- Mobile Apps Development – iPhone Certificate of Achievement (12 units)
- Networking Certificate of Achievement (17 units)
- Web Developer Certificate of Achievement (30 units)
- Cloud Computing Department Certificate (15 units)
- Cybersecurity Department Certificate (12 units)
- Entry Level Programmer Department Certificate (12 units)
- Microsoft Azure Department Certificate (9 units)

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

The **University of California system** has a transfer pathway for any UC campus that offers Computer Science. For more information, visit pathwaysguide.universityofcalifornia.edu

CLOUD COMPUTING, ASSOCIATE DEGREE OR CERTIFICATE OF ACHIEVEMENT

This certificate provides students with the industry skills to understand, build and maintain applications for the cloud. These skills include the technical principles of the hardware and software requirements to run systems in the cloud including storage, database management, and software systems, while maintaining secure access.

Program Learning Outcomes: Upon completion of the program, students will demonstrate a high level of competency in the different operational levels of cloud computing, such as storage and software as a service, while applying security standards to their operation.

Required Courses: (15 units)

CS 41, Linux Workstation Administration (3)

or

CS 43, Windows Network Administration (3)

CS 70, Network Fundamentals and Architecture (3)

CS 79A, Introduction to Cloud Computing (3)

CS 81, Javascript Programming (3)

CS 87A, Python Programming (3)

Select 1 Track: (9 units)

AWS Track:

CS 79B, Database Essentials in Amazon Web Services (3)

and

CS 79C, Compute Engines in Amazon Web Services (3)

and

CS 79D, Security in Amazon Web Services (3)

or

Azure Track:

CS 33, C# Programming (3)

and

CS 79Y, Microsoft Azure Database Essentials (3)

and

CS 79Z, Microsoft Azure Essentials (3)

*Elective Courses: Select 2 courses from the following:
(3 units)*

CS 55, Java Programming (3)

or

CS 79E, Best Practices in Amazon Web Services (3)

or

CS 79F, Machine Learning on AWS (3)

or

CS 82, ASP.NET Programming in C# (3)

or

CS 83R, Server-Side Ruby Web Programming (3)

COMPUTER PROGRAMMING, ASSOCIATE DEGREE OR CERTIFICATE OF ACHIEVEMENT

A computer programmer is a professional who is skilled in writing medium to large-scale computer applications. This requires the knowledge and practice of a multitude of areas in Computer Science. This certificate focuses on learning and using advanced programming techniques to build software applications. In addition, it covers core computer science concepts such as operating systems and Database Theory.

Program Learning Outcomes: Upon completion of the program, students will design, code, test, and debug computer programs. They will understand and use the Internet and web, application software, the components of the system unit, input, output, storage, operating systems and utility programs, communications and networks, database management, information systems development, and project management. Students will also explain the social implications of technological development, and understand the capabilities of current-day computers and the possibilities for the future.

Required Core Courses: (15 units)

CS 3, Introduction to Computer Systems (3)

CS 40, Operating Systems (3)

or

CS 80, Internet Programming (3)

CS 50, C Programming (3)

CS 60, Database Concepts and Applications (3)

MATH 20, Intermediate Algebra (5)

or

One of the following:

MATH 2, 7, 8, 10, 11, 13, 15, 21, 26, 28, 29, 41, 54

Required Concentration Courses: Select 2 of the following groups: (12 units)

GROUP 1:

CS 15, Visual Basic Programming (3)

CS 19, Advanced Visual Basic Programming (3)

GROUP 2:

CS 81, Javascript Programming (3)

and

One course from the following:

CS 82, ASP.NET Programming in C# (3)

CS 83, Server-Side Java Web Programming (3)

CS 83R, Server-Side Ruby Web Programming (3)

CS 84, Programming with XML (3)

CS 85, PHP Programming (3)

GROUP 3:

CS 65, Oracle Programming (3)

CS 66, Advanced Oracle (3)

GROUP 4:

CS 52, C++ Programming (3)

and

One course from the following:

CS 20A, Data Structures with C++ (3)

CS 51, Visual C++ Programming (3)

GROUP 5:

CS 55, Java Programming (3)

and

One course from the following:

CS 20B, Data Structures with Java (3)

CS 56, Advanced Java Programming (3)

COMPUTER SCIENCE, ASSOCIATE DEGREE OR CERTIFICATE OF ACHIEVEMENT

Computer Science covers a broad spectrum of courses ranging from core computer science to a variety of branch fields of computer science. This academic and career path provides the student with the basic skills required of core computer science. Courses include programming in low-level and essential languages, Database Theory, Operating Systems Fundamentals, Computer Hardware and Data Structures. Students finishing this program are well equipped to work in the field of computer science, as well as transfer to a four-year degree program in this area.

Program Learning Outcomes: Upon completion of the program, students will manage projects, analyze systems, develop software, and program in a variety of computer languages; author webpages and develop web applications; utilize networks and computer hardware; and create and manipulate data structures.

Required Core Courses: (17 units)

CS 3, Introduction to Computer Systems (3)

CS 17, Assembly Language Programming (3)

CS 42, Digital Logic (3)

CS 50, C Programming (3)

MATH 7, Calculus 1 (5)

Required Concentration Courses: Select 1 of the following groups: (6 units)

GROUP 1:

CS 20A, Data Structures with C++ (3)

CS 52, C++ Programming (3)

GROUP 2:

CS 20B, Data Structures with Java (3)

CS 55, Java Programming (3)

DATABASE APPLICATIONS DEVELOPER, ASSOCIATE DEGREE OR CERTIFICATE OF ACHIEVEMENT

This program develops the skills needed to design and build a database architecture, as well as interact with modern database management systems locally, remotely, or in the cloud. The program will provide an understanding on how to consistently design databases in an organized structure for storing and retrieving data. With increasing concerns over security, a database developer must also be able to write secure code that runs with minimum risk of attacks.

Program Learning Outcomes: Upon completion of the program, students will demonstrate the ability to design, develop and populate databases locally, remotely, and in the cloud. Students will also demonstrate the ability to properly organize and structure information for storing and retrieving different kinds of data at industry scale.

Required Courses: (18 units)

- CS 3, Introduction to Computer Systems (3)
- CS 9A, Technology Project Management I (3) (*same as CIS 9A*)
- CS 15, Visual Basic Programming (3)
- CS 60, Database Concepts and Applications (3)
- CS 79A, Introduction to Cloud Computing (3)
- CS 87A, Python Programming (3)

Select 2 courses from the following: (6 units)

- CS 19, Advanced Visual Basic Programming (3)
- CS 32, Database Programming in Visual Basic. Net (3)
- CS 33, C# Programming (3)
- CS 37, Web Programming in VB .Net (3)
- CS 61, Microsoft SQL Server Database (3)
- CS 65, Oracle Programming (3)
- CS 73A, Fundamentals of Computer Security (3)
- CS 79B, Database Essentials in Amazon Web Services (3)
- CS 79Y, Microsoft Azure Database Essentials (3)
- CS 83R, Server-Side Ruby Web Programming (3)
- CS 85, PHP Programming (3)

Select 1 course from the following: (3 units)

- CS 77A, Salesforce Administration Essentials (3)
- CS 77B, Salesforce Developer Essentials (3)

WEB DEVELOPER (FORMERLY WEB PROGRAMMER), ASSOCIATE DEGREE OR CERTIFICATE OF ACHIEVEMENT

This program helps students develop skills to design interactive and responsive websites and apps. Web developers need to be knowledgeable on a variety of technologies such as HTML, CSS, JavaScript, programming languages, web frameworks, cloud hosting, networking, database management, and cybersecurity. Web developers are chiefly responsible for code implementation and maintenance of web applications at both the front-end and back-end. Web developers are instrumental in the success of an organization's online presence.

Program Learning Outcomes: Upon completion of the program, students will design and develop full stack web apps, as well as provide the code to make websites interactive or allow users to interact with back-end applications and databases.

Required Courses: (18 units)

- CS 60, Database Concepts and Applications (3)
- CS 70, Network Fundamentals and Architecture (3)
- CS 73A, Fundamentals of Computer Security (3)
- CS 79A, Introduction to Cloud Computing (3)
- CS 80, Internet Programming (3)
- CS 81, Javascript Programming (3)

Select 1 course from the following: (3 units)

- CIS 67, WordPress (3)
- CS 32, Database Programming in Visual Basic.Net (3)
- CS 37, Web Programming in VB .Net (3)
- CS 82, ASPEN.NET Programming in C# (3)

- CS 83, Server-Side Java Web Programming (3)
- CS 83R, Server-Side Ruby Web Programming (3)
- CS 85, PHP Programming (3)
- CS 87A, Python Programming (3)

Select 1 course from the following: (3 units)

- CS 73B, Computer Forensics Fundamentals (3)
- CS 73C, Cybersecurity and Ethical Hacking (3)

Select 1 course from the following: (3 units)

- CS 77A, Salesforce Administration Essentials (3)
- CS 77B, Salesforce Developer Essentials (3)

Select 1 course from the following: (3 units)

- CS 79B, Database Essentials in Amazon Web Services (3)
- CS 79C, Compute Engines in Amazon Web Services (3)
- CS 79D, Security in Amazon Web Services (3)
- CS 79E, Best Practices in Amazon Web Services (3)

INFORMATION SYSTEMS MANAGEMENT, CERTIFICATE OF ACHIEVEMENT

This program aims to provide Computer Science students with the knowledge needed to develop Information Systems in a real-world setting. Students learn how to develop medium to large scale applications while applying the skills needed to plan and budget resources in development projects from conceptual design to deployment.

Program Learning Outcomes: Upon completion of the program, students will understand the real-world complexity of Information Systems in industry today. Students will learn how to plan and budget resources for the successful implementation of Information Systems.

Required Courses: (10 units)

- CS 9A, Technology Project Management I (3) (*same as CIS 9A*)
- CS 9B, Technology Project Management II (3) (*same as CIS 9B*)
- CS 15, Visual Basic Programming (3)
- CS 88A, Independent Studies in Computer Science (1)

Select 1 course from the following: (3 units)

- CS 19, Advanced Visual Basic Programming (3)
- CS 32, Database Programming in Visual Basic.Net (3)
- CS 37, Web Programming in VB.NET (3)

MOBILE APPS DEVELOPMENT – ANDROID, CERTIFICATE OF ACHIEVEMENT

This program provides students with the knowledge and skills necessary to work in the emerging mobile career field. Students learn how to design and write apps for the Android platform. In addition to programming courses, the program includes courses that teach the fundamentals of mobile app and icon design.

Program Learning Outcomes: Upon completion of the program, students will design — and use the Eclipse environment to develop, test, and debug — apps that run on the Android platform for mobile phones and tablets. In addition, students will use the Android Framework to develop apps for mobile devices that incorporate audio, pictures, animation, maps, networking, and the Internet.

Required Courses: (12 units)

- CS 55, Java Programming (3)
- CS 56, Advanced Java Programming (3)

CS 86, Android Development (3)
GR DES 75, Mobile Design 1 (3)

Select 1 course from the following: (3 units)

CIS 60A, Photoshop I (3)
CS 60, Database Concepts and Applications (3)
CS 84, Programming with XML (3)

MOBILE APPS DEVELOPMENT – IPHONE, CERTIFICATE OF ACHIEVEMENT

This program provides students with the knowledge and skills necessary to work in the emerging mobile career field. Students learn how to design and write apps for the iPhone/iPad/iPod platform. In addition to programming courses, the program includes courses that teach the fundamentals of mobile app and icon design.

Program Learning Outcomes: Upon completion of the program, students will design, develop, test, and debug iOS apps using XCode environment for iPhone, iPad, and iPod. In addition, students will develop iOS apps using Cocoa Framework that incorporate the address book, audio, video, networking, and the Internet.

Required Courses: (9 units)

CS 53A, iOS Development with Swift (3)
CS 53B, iOS Mobile App Development (3)
GR DES 75, Mobile Design 1 (3)

Select 1 course from the following: (3 units)

CIS 60A, Photoshop I (3)
CS 60, Database Concepts and Applications (3)
CS 84, Programming with XML (3)

NETWORKING, CERTIFICATE OF ACHIEVEMENT

The IT world is integrated by networks. Success in IT disciplines like database, website, or e-commerce development demands a supporting grasp of the network environment. Major technologies are the networks themselves, their fit within the operating platforms they connect to, specific network applications, and measures to achieve network security. Network engineers and other qualified IT specialists must understand the various protocols, program interfaces, how networks are presented and managed on Unix and Windows platforms, specific server programs and their clients, and what the inherent risks are.

Program Learning Outcomes: Upon completion of the program, students will be able to design and implement computer and information networks such as local area networks (LAN), wide area networks (WAN), intranets, extranets, and other data communications networks. Students will also be able to perform network modeling, analysis, and planning; design network and computer security measures; and research and recommend network and data communications hardware and software.

Required Courses: (17 units)

CS 9A, Technology Project Management I (3) (*same as CIS 9A*)
CS 41, Linux Network Administration (3)
CS 43, Windows Network Administration (3)
CS 70, Network Fundamentals and Architecture (3)
CS 75, Network Protocols and Analysis (2)
CS 78, Secure Server Installation and Administration (3)

CLOUD COMPUTING, DEPARTMENT CERTIFICATE

This program provides the industry standard skills to understand and develop applications for the cloud. Students learn a range of topics that cover the technical principals of the hardware and software requirements to run systems in the cloud including storage, database management, and software systems, while maintaining secure access.

Program Learning Outcomes: Upon completion of the program, students will have the ability to host a database and run queries using an interface from a commercial provider. Students will also have the ability to run a file-server service using a provider of their choice.

Required Courses: (12 units)

CS 79A, Introduction to Cloud Computing (3)
CS 79B, Database Essentials in Amazon Web Services (3)
CS 79C, Compute Engines in Amazon Web Services (3)
CS 79D, Security in Amazon Web Services (3)

Select 1 course from the following: (3 units)

CS 55, Java Programming (3)
CS 82, ASPEN.NET Programming in C# (3)
CS 83R, Server-Side Ruby Web Programming (3)
CS 87A, Python Programming (3)

CYBERSECURITY, DEPARTMENT CERTIFICATE

This certificate will prepare students for an entry-level position in the field of information security. They will gain an understanding of technological needs, threats, and weaknesses in cybersecurity. Through this certificate, students will learn the tools needed to manage computer systems as well as gain insight into the legal, and social aspects of the cyber universe.

Program Learning Outcomes: Upon completion of the program, students will be able to analyze potential cyber threats to an organization network, and recommend and apply the proper tools to defend against those attacks

Required Core: (12 units)

CS 70, Network Fundamentals and Architecture (3)
CS 73A, Fundamentals of Computer Security (3)
CS 73B, Computer Forensics Fundamentals (3)
CS 73C, Cybersecurity and Ethical Hacking (3)

ENTRY LEVEL PROGRAMMER, DEPARTMENT CERTIFICATE

This certificate provides students with the knowledge and practice needed to develop small-scale applications. The certificate also provides students with the building blocks to pursue further studies in computer science and/or start an entry-level position in the software development industry.

Program Learning Outcomes: Upon completion of this program, students will design, code, test and debug computer programs. They will understand and use application software and the various components involved in system development. Student will also learn the social implications of technological development and understand the capabilities of current day computers and the possibilities for the future.

Required Course:

CS 3, Introduction to Computer Systems (3)

Complete any 3 courses from the following:

- CS 15, Visual Basic Programming (3)
- CS 17, Assembly Language Programming (3)
- CS 18, Advanced Assembly Language Programming (3)
- CS 19, Advanced Visual Basic Programming (3)
- CS 20A, Data Structures with C++ (3)
- CS 20B, Data Structures with Java (3)
- CS 30, MATLAB Programming (3)
- CS 32, Database Programming in Visual Basic.Net (3)
- CS 33, C# Programming (3)
- CS 34A, Game Programming 1 (3)
- CS 37, Web Programming in VB.Net (3)
- CS 50, C Programming (3)
- CS 51, Visual C++ Programming (3)
- CS 52, C++ Programming (3)
- CS 53A, iOS Development with Swift (3)
- CS 53B, iOS Mobile App Development (3)
- CS 55, Java Programming (3)
- CS 56, Advanced Java Programming (3)
- CS 80, Internet Programming (3)
- CS 81, Javascript Programming (3)
- CS 82, ASP.NET Programming in C# (3)
- CS 83, Server-Side Java Web Programming (3)
- CS 83R, Server-Side Ruby Web Programming (3)
- CS 85, PHP Programming (3)
- CS 86, Android Development (3)
- CS 87A, Python Programming (3)

MICROSOFT AZURE, DEPARTMENT CERTIFICATE

This program provides the industry standard skills to understand and develop applications for the cloud using the Microsoft Azure platform. Students learn a range of topics that cover the technical principles of the hardware and software requirements to run systems in the cloud, including storage, database management, and software systems, while maintaining secure access.

Program Learning Outcomes: Upon completion of the program, students will design and develop full stack web apps, as well as provide the code to make websites interactive or allow users to interact with back-end applications and databases. Students will be able to host a database and run queries using an interface from a commercial provider. Students will be able to run a file-server service using a provider of their choice.

Required Courses: (6 units)

- CS 79A, Introduction to Cloud Computing (3)
- CS 79Z, Microsoft Azure Essentials (3)

Select 1 course from the following: (3 units)

- CS 33, C# Programming (3)
- or*
- CS 79Y, Microsoft Azure Database Essentials (3)
- or*
- CS 82, ASP.NET Programming in C# (3)
- or*
- CS 83R, Server-Side Ruby Web Programming (3)
- or*
- CS 87A, Python Programming (3)

ROBOTICS AND ARTIFICIAL INTELLIGENCE, DEPARTMENT CERTIFICATE

This program is temporarily suspended. Many of the required classes are not being offered at this time. Students

interested in this certificate program should contact the Computer Science department at 310-434-4295.

Cosmetology

SMC's Cosmetology Department — an exciting place of color, shape, and beauty — offers the education students need to succeed in the cosmetology, skin care, and nail care industries. These well-established programs will prepare students for a career as a platform artist, educator, stylist, colorist, salon owner, sales representative, and makeup artist, as well as offer students the opportunity to work in the television and movie industries, or on cruise ships. This program prepares students to take the State board examination for a cosmetology license.

Information regarding the cosmetology program is available in the Cosmetology Department, 310-434-4292, and through the SMC website (smc.edu).

Programs Offered:

- Cosmetology Associate Degree
- Cosmetology Certificate of Achievement (25.5 units to total 1,600 hours)
- Esthetician Certificate of Achievement (13 units to total 600 hours)
- Nail Care Certificate of Achievement (9 units to total 400 hours)
- Salon Business Department Certificate (11 units)

COSMETOLOGY, ASSOCIATE DEGREE OR CERTIFICATE OF ACHIEVEMENT

Program Learning Outcomes: Upon completion of the program, students will be able to demonstrate professional level skill in her cutting, hair coloring, hair styling, nail care, and skin care. Additionally, the student will be proficient in health and safety procedures in common use in salons. Upon completion, the student will be eligible to take the California State Board of Cosmetology and Barbering licensure exam.

Required Hours:

1,600 hours minimum including the courses specified below.

Required Related Science Courses:

- COSM 10A, Related Science 1A
- COSM 10B, Related Science 1B
- COSM 20, Related Science 2
- COSM 30, Related Science 3
- COSM 40, Related Science 4
- COSM 50A, Related Science 5
- COSM 50B, Practical Preparation for State Board Exam
- COSM 50C, Written Preparation for State Board Exam
(only required if 50B was completed fall 2010 or later)

Required Hair Cutting Courses:

- COSM 11A, Hair Cutting 1
- COSM 21A, Hair Cutting 2
- COSM 31A, Hair Cutting 3
- COSM 42, Men's Hair Styling

Required Hair Styling Courses:

- COSM 11B, Hair Styling 1
- COSM 21B, Hair Styling 2
- COSM 31B, Hair Styling 3

Required Hair Coloring Courses:

COSM 11C, Hair Coloring 1
 COSM 21C, Hair Coloring 2
 COSM 31C, Hair Coloring 3

Required Permanent Wave Courses:

COSM 11D, Permanent Wave 1
 COSM 21D, Permanent Waving 2

Required Curly Hair Technique Courses:

COSM 11E, Curly Hair Techniques 1 (formerly
 COSM 14A)
 COSM 21E, Curly Hair Techniques 2 (formerly
 COSM 14B)
 COSM 31E, Curly Hair Techniques 3 (formerly
 COSM 24)

Required Nail Care Courses:

COSM 16, Nail Care 1
 COSM 26, Nail Care 2
 COSM 36, Nail Care 3

Required Esthetician Courses:

COSM 18, Skin Care 1
 COSM 28A, Skin Care 2A
 COSM 28B, Skin Care 2B
 COSM 38, Skin Care 3
 COSM 48, Skin Care 4
 COSM 48B, Advanced Make-Up

Required Salon Management Course:

COSM 64, Salon Management

Advanced Courses for Career Success: Select at least two of the courses below: (1 unit minimum)

COSM 38B, Mechanical Exfoliation
 COSM 38C, Chemical Exfoliation
 COSM 41B, Hair Styling 4
 COSM 46, Nail Care 4

In order to fulfill required hours, operations, and/or units, select one or more of the following Salon courses: (1 unit minimum) NOTE: Students may NOT enroll in any of the courses below until they have completed at least 300 hours of practicum activity AND have completed all of the following Cosmetology courses: 10A, 10B, 11A, 11B, 11C, 11D, 11E, 16, and 18.

Salon Experience Courses:

COSM 95A, Salon Experience
 COSM 95B, Salon Experience
 COSM 95C, Salon Experience
 COSM 95D, Salon Experience

ESTHETICIAN, CERTIFICATE OF ACHIEVEMENT

The esthetician program provides students with professional-level skill in client consultation, skin analysis, and manual, chemical, and electrical facials, as well as eyebrow shaping, waxing, the application of strip and individual eyelashes, and makeup application. Additionally, students will become proficient in health and safety procedures in common use in salons and spas. Upon completion, the student will be eligible to take the State Board of Cosmetology and Barbering/NIC Esthetician licensure exam.

Program Learning Outcomes: Upon completion of the program, students will demonstrate professional-level skill in client consultation, skin analysis, and manual, chemical, and electrical facials, as well as eyebrow shaping, waxing, the application of strip and individual eyelashes, and makeup

application. Additionally, the student will be proficient in health and safety procedures in common use in salons and spas.

Required Hours:

600 hours minimum including the courses specified below.

Required Related Science Courses:

COSM 10A, Related Science 1A
 COSM 10B, Related Science 1B
 COSM 20, Related Science 2
 COSM 30, Related Science 3
 COSM 50E, Written Preparation for Esthetician State Board Exam

Required Esthetician Courses:

COSM 18, Skin Care 1
 COSM 28A, Skin Care 2A
 COSM 28B, Skin Care 2B
 COSM 38, Skin Care 3
 COSM 38B, Mechanical Exfoliation
 COSM 38C, Chemical Exfoliation
 COSM 48, Skin Care 4
 COSM 48B, Advanced Make-Up

Required Salon Management Course:

COSM 64, Salon Management
 Theory and Practice Activity: In order to fulfill required hours, operations, and/or units, select one or more of the following Salon courses: (1 unit minimum) NOTE: Students may NOT enroll in any of the courses below until they have completed at least 90 hours of practicum activity AND have completed all of the following COSM courses: 10A, 10B, and 18.

Salon Experience Courses:

COSM 95A, Salon Experience
 COSM 95B, Salon Experience
 COSM 95C, Salon Experience
 COSM 95D, Salon Experience

NAIL CARE, CERTIFICATE OF ACHIEVEMENT

Program Learning Outcomes: Upon completion of the Nail Care program, students will demonstrate professional-level skill in manicures, pedicures, nail tips, acrylics, gel nails, and 3-D nail art. Additionally, the student will be proficient in health and safety procedures in common use in salons and spas.

Required Hours:

400 hours minimum including the courses specified below.

Required Related Science Courses:

COSM 10A, Related Science 1A
 COSM 10B, Related Science 1B
 COSM 20, Related Science 2
 COSM 50N, Written Preparation for Nail Care State Board Exam

Required Nail Care Courses:

COSM 16, Nail Care 1
 COSM 26, Nail Care 2
 COSM 36, Nail Care 3
 COSM 46, Nail Care 4

Required Salon Management Course:

COSM 64, Salon Management

Theory and Practical Activity: In order to fulfill required hours, operations, and/or units, select one or more of the following Salon courses: (1 unit minimum) (NOTE: Students may NOT enroll in any of the courses below until they have completed at least 90 hours of practicum activity AND have completed all of the following COSM courses: 10A, 10B, and 16.)

Salon Experience Courses:

- COSM 95A, Salon Experience
- COSM 95B, Salon Experience
- COSM 95C, Salon Experience
- COSM 95D, Salon Experience

SALON BUSINESS, DEPARTMENT CERTIFICATE

A Department Certificate in Salon Business will aid cosmetologists, estheticians, and manicurists in establishing and running their own business/salon.

Required Courses:

ACCTG 21, Business Bookkeeping (3)

BUS 1, Introduction to Business (3)

or

BUS 20, Principles of Marketing (3)

or

BUS 65, Management Principles (3)

CIS 4, Business Information Systems with Applications (3)

COSM 64, Salon Management (2)

TEACHER TRAINING (IN COSMETOLOGY)

This program is temporarily suspended. Many of the required classes are not being offered at this time. Students interested in this certificate program should contact the Cosmetology department at 310-434-4292.

Counseling – Noncredit

This noncredit program is designed to assist students in transitioning from noncredit to credit courses, with the goal of improving literacy and preparing for a career and general skills for the workforce. These two courses will focus on college readiness, educational planning, the career exploration process and how to navigate the workforce and become gainfully employed. *The Certificate of Completion is granted after successful completion of COUNS 901 and COUNS 902.*

Program Offered:

- Transition to College and Career Certificate of Completion (Noncredit)

TRANSITION TO COLLEGE AND CAREER, CERTIFICATE OF COMPLETION (NONCREDIT)

Program Learning Outcomes: Upon completion of the program, students will demonstrate knowledge of the SMC matriculation process, student support services and resources and prepare an educational plan based on short and long-term goals. Students will be able to identify a potential career and associated job skills through career and interest inventories, create a career action plan, resume, cover letter and job application, and utilize job online job search resources.

Required Courses:

- COUNS 901, Transition to College (0)
- COUNS 902, Career and Workforce Readiness (0)

Dance

The Dance program prepares the serious dance student for university transfer and provides dance training and enrichment for both the beginning and the advanced dancer. The program offers a comprehensive curriculum with a broad range of dance courses to nurture versatile dance artists. The Dance Department encourages students to think independently, to value creative thought and diversity, and to be responsible global citizens.

The goal of the Dance program is to prepare students for future careers in performance, choreography, teaching, and related careers in dance. The program offers a wide array of dance classes designed to cultivate technique, creativity, and performance skills while enhancing self-confidence, creative thought/expression, and critical thinking.

Programs Offered:

- Transfer Preparation
- Dance Associate Degree

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

DANCE, ASSOCIATE DEGREE

Program Learning Outcomes: Upon completion of the program, students will develop an understanding and appreciation of the aesthetics inherent in the art of dance, as well as develop an awareness and respect for similar and dissimilar cultures. Students acquire the historical knowledge, necessary technical skills, and knowledge in a particular style of dance, as well as observation/analysis of dance presented on stage or in media. Students implement critical thinking skills and kinesthetic awareness through creative experience in class, learning to communicate through the power of movement, and discovering self-motivation.

Required Courses: (31 units)

DANCE 5, Dance History (3)

DANCE 33A, Intermediate Ballet 3A (2) (formerly DANCE 33)

DANCE 33B, Intermediate Ballet 3B (2) (formerly DANCE 34)

DANCE 34A, Advanced Ballet 4A (2) (formerly DANCE 35)

DANCE 34B, Advanced Ballet 4B (2) (formerly DANCE 36)

- DANCE 43A, Intermediate Contemporary Modern Dance 3A (2) (formerly DANCE 43)
 DANCE 43B, Intermediate Contemporary Modern Dance 3B (2) (formerly DANCE 44)
 DANCE 44A, Advanced Contemporary Modern Dance 4A (2) (formerly DANCE 45)
 DANCE 44B, Advanced Contemporary Modern Dance 4B (2) (formerly DANCE 46)
 DANCE 55A, Dance Performance – Modern (4)
 DANCE 57A, World Dance Performance (4)
 DANCE 60, Fundamentals of Choreography: Dance Improvisation (2)
 DANCE 61, Fundamentals of Choreography: Composition 1 (2)

Additional Electives: Select at least 2 units from the following:

- DANCE 2, Dance in American Culture (3)
 DANCE 6, 20th and 21st Century Dance History (3)
 DANCE 7, Music for Dance (3)
 DANCE 9, Dance Productions (3)
 DANCE 10, Fundamentals of Dance Technique (2)
 DANCE 11, Beginning Hip Hop Dance (2)
 DANCE 12, Intermediate Hip Hop Dance (2)
 DANCE 14, Beginning Jazz Dance (2)
 DANCE 15, Intermediate Jazz (2)
 DANCE 16, Advanced Jazz (2)
 DANCE 17, Beginning Tap (2)
 DANCE 18, Intermediate Tap (2)
 DANCE 19, Ballroom Dance (1)
 DANCE 20, World Dance Survey (2)
 DANCE 21A, Asian Pacific Dance Survey (2) (formerly DANCE 21)
 DANCE 21B, Intermediate Asian Pacific Dance (2)
 DANCE 22, Mexican Dance (2)
 DANCE 23, Intermediate Mexican Dance (2)
 DANCE 24, Flamenco Dance 1 (2)
 DANCE 24B, Intermediate Flamenco Dance (2)
 DANCE 25, African Dance (2)
 DANCE 25B, Intermediate African Dance (2)
 DANCE 26A, Beginning Salsa Dance (2)
 DANCE 27, Brazilian Dance (2)
 DANCE 27B, Intermediate Brazilian Dance (2)
 DANCE 29, Middle Eastern/North African Dance (2)
 DANCE 31, Ballet 1 (1)
 DANCE 32, Ballet 2 (2)
 DANCE 37, Beginning Pointe (1)
 DANCE 41, Contemporary Modern Dance 1 (1)
 DANCE 42, Contemporary Modern Dance 2 (1)
 DANCE 55B, Dance Repertory – Modern (1)
 DANCE 57B, Repertory World Dance (1)
 DANCE 59A, Dance Performance – Ballet (3)
 DANCE 62, Fundamentals of Choreography: Composition 2 (2)
 DANCE 63, Fundamentals of Choreography: Special Topics (2)
 DANCE 70, Dance Staging Techniques (1)
 DANCE 75, Dance for Children: Creative Dance in the Pre-K and Elementary Classroom (3) (same as ECE 75)
 DANCE 79, Dance in New York City (1)

Digital Media Post-Production

Programs Offered:

- Transfer Preparation
- Digital Media Associate Degree
- Digital Audio Post-Production Certificate of Achievement (18 units)
- Digital Media Foundation Certificate of Achievement (18 units)
- Digital Video Post-Production Certificate of Achievement (18 units)

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

DIGITAL MEDIA, ASSOCIATE DEGREE

The Digital Media Associate degree program is a comprehensive study of the digital post-production processes used in the entertainment industry. The required coursework begins with the Digital Media Foundation Certificate of Achievement, combining a solid foundation in visual storytelling with hands-on experience using digital media software applications.

After successfully completing the Digital Media Foundation, students pursue a concentration in either Digital Audio Post-Production or Digital Video Post-Production. Each concentration reflects an area of industry specialization, and is awarded as a second Certificate of Achievement. Students must complete the required coursework for the Digital Media Foundation and at least one concentration to be eligible for the Digital Media Associate degree.

Throughout the Digital Media Associate degree program, students learn to develop professional skills, demonstrate those skills in effective entry-level portfolios, and work collaboratively on team-based projects. Students may also participate in internships with industry partners when available.

Program Learning Outcomes: Upon completion of the program, students will be able to create an effective digital media portfolio for transfer or entry-level employment that demonstrates an understanding of industry-standard tools and methodologies.

Required Courses: (18 units)

- ANIM 1, Storytelling (3) (formerly ET 2)
- DMPOST 1, Digital Media Workflow Management (3) (formerly ET 3)

DMPOST 2, Digital Audio Fundamentals (3) (formerly ET 40)
 DMPOST 3, Digital Video Fundamentals (3) (formerly ET 31A)
 DMPOST 4, Digital Image Fundamentals (3) (formerly ET 38)
 FILM 1, Film Appreciation: Introduction to Cinema (3)

Required Concentration: Select 1 of the following concentrations: (minimum of 18 units as specified)

Digital Audio Post-Production Concentration: (18 units)
 DMPOST 20, Digital Audio Editing (3) (formerly ET 41)
 DMPOST 21, Digital Audio for Games (3) (formerly ET 39)
 DMPOST 22, Digital Music Production (3) (formerly ET 41M)
 DMPOST 23, Sound Design (3)
 DMPOST 24, Audio Mixing for Visual Media (3)
 DMPOST 60, Post-Production Studio (3) (formerly ET 60)

or

Digital Video Post-Production Concentration: (18 units)
 DMPOST 30, Digital Video Editing (3) (formerly ET 31B)
 DMPOST 31, Digital Compositing (3) (formerly ET 32)
 DMPOST 32, Color Grading and Film Finishing (3)
 DMPOST 60, Post-Production Studio (3) (formerly ET 60)
 GR DES 71, Motion Graphics 1 (3) (formerly ET 58)
 GR DES 71B, Motion Graphics 2 (3) (formerly ET 59)

DIGITAL AUDIO POST-PRODUCTION, CERTIFICATE OF ACHIEVEMENT

The Digital Audio Post-Production program is a comprehensive study of the digital audio post-production processes used in the entertainment industry. Through a balance of theory and hands-on experience, students will learn professional practices on industry-standard technology.

Program Learning Outcomes: Upon completion of the program, students will be able to create an effective digital audio portfolio for transfer or entry-level employment that demonstrates an understanding of industry standard tools and methodologies.

Required Courses: (18 units)

DMPOST 20, Digital Audio Editing (3) (formerly ET 41)
 DMPOST 21, Digital Audio for Games (3) (formerly ET 39)
 DMPOST 22, Digital Music Production (3) (formerly ET 41M)
 DMPOST 23, Sound Design (3)
 DMPOST 24, Audio Mixing for Visual Media (3)
 DMPOST 60, Post-Production Studio (3) (formerly ET 60)

DIGITAL MEDIA FOUNDATION, CERTIFICATE OF ACHIEVEMENT

The Digital Media Foundation program provides a solid foundation in visual storytelling, as well as hands-on exposure to digital post-production processes. Students will gain a fundamental understanding of industry standard software applications.

Program Learning Outcomes: Upon completion of the program, students will be able to create original content that

demonstrates an understanding of digital post-production using standard industry tools and methodologies. Students will also be able to identify areas of potential entry-level employment or advanced study in digital media fields

Required Courses: (18 units)

ANIM 1, Storytelling (3) (formerly ET 2)
 DMPOST 1, Digital Media Workflow Management (3) (formerly ET 3)
 DMPOST 2, Digital Audio Fundamentals (3) (formerly ET 40)
 DMPOST 3, Digital Video Fundamentals (3) (formerly ET 31A)
 DMPOST 4, Digital Image Fundamentals (3) (formerly ET 38)
 FILM 1, Film Appreciation: Introduction to Cinema (3)

DIGITAL VIDEO POST-PRODUCTION, CERTIFICATE OF ACHIEVEMENT

The Digital Video Post-Production program is a comprehensive study of the digital video post-production processes used in the entertainment industry. Through a balance of theory and hands-on experience, students will learn professional practices on industry-standard technology.

Program Learning Outcomes: Upon completion of the program, students will be able to create an effective digital video portfolio for transfer or entry-level employment that demonstrates an understanding of industry standard tools and methodologies.

Required Courses: (18 units)

DMPOST 30, Digital Video Editing (3) (formerly ET 31B)
 DMPOST 31, Digital Compositing (3) (formerly ET 32)
 DMPOST 32, Color Grading and Film Finishing (3)
 DMPOST 60, Post-Production Studio (3) (formerly ET 60)
 GR DES 71, Motion Graphics 1 (3) (formerly ET 58)
 GR DES 71B, Motion Graphics 2 (3) (formerly ET 59)

Early Childhood Education

Students in Early Childhood Education will be trained to supervise and provide care and learning experiences for infant through eight-year-old children in a variety of early childhood settings. Early childhood education professionals adhere to the guidelines as well as the Professional Code of Ethics of the National Association for the Education of Young Children (NAEYC) providing developmentally appropriate learning opportunities for the enhancement of the physical, intellectual, social, emotional and creative domains of young children.

The Early Childhood Education academic and career path focuses on educational practices that emphasize interpersonal relationships, cultural diversity, child-centered curriculum and the inclusion of children with special needs in all educational opportunities.

The Early Childhood Education academic and career path major follows a natural progression that allows students to move from short to long-term educational goals: preparation for the state Children's Center Permit, fulfillment of post-certificate Professional Development, completion of advanced California Career Ladder courses (including paired specialization courses as well as the California State

Mentor course), completion of an Associate degree in Early Childhood Education – Career, Associate degree in Early Childhood Intervention assistant, Associate degree in Early Childhood Intervention Teacher, and transfer to a four-year institution.

Possible Early Childhood Education career goals include Early Childhood Education Teacher, Early Education Director, Early Childhood Intervention Assistant, Early Childhood Intervention Teacher, Family Home Child Care Provider, Private ECE Center Owner/Director, K through 12 Teacher, Early Childhood Special Education Teacher, K through 12 Special Education Teacher, Parent Educator, Early Childhood Education Instructor, Marriage Family and Child Counselor, Child-Life Specialist.

The Early Childhood Intervention Assistant program will prepare students for career placements in public and/or private early intervention and educational settings that serve typically and atypically developing young children. Specific jobs and responsibilities may include serving as an early childhood educator with a specialization in working with children with special needs, special education assistant for children birth to eight years of age, a one-to-one aide for a child (e.g., “inclusion facilitator”), classroom aide with expertise in special needs, or as an assistant to the early intervention team for infants birth to three years of age.

Grid for Early Childhood Education courses at California Community Colleges can be found at: childdevelopment.org/cs/cdtc/print/htdocs/services_colleges_aligned.htm

Programs Offered:

- Transfer Preparation
- Child and Adolescent Development Associate Degree for Transfer
Students may satisfy the requirements of this degree with approved courses (which may be fewer units) taken at other California Community Colleges. The courses listed below are SMC courses. If completed entirely at SMC, the academic path requires 19 units.
- Early Childhood Education Associate Degree for Transfer
Students may satisfy the requirements of this degree with approved courses (which may be fewer units) taken at other California Community Colleges. The courses listed below are SMC courses. If completed entirely at SMC, the academic path requires 27 units.
- Early Childhood Studies Associate Degree
- Early Intervention/Special Education Assistant (formerly Early Intervention Assistant) Associate Degree
- Infant/Toddler Teacher Associate Degree
- Early Childhood Associate Teacher – Certificate of Achievement (12 units)
- Early Childhood Education – Career Certificate of Achievement (30 units)
- Early Intervention/Special Education Assistant (formerly Early Intervention Assistant) Certificate of Achievement (33 units)
- Infant/Toddler Teacher Certificate of Achievement (30 units)
- Nature-Based Pedagogy Certificate of Achievement (22 units)
- Transitional Kindergarten Certificate of Achievement (24 units)

Transfer and program requirements are subject to change. For the most up-to-date information regarding transfer preparation visit assist.org and regarding degree and certificate requirements visit smc.edu/articulation.

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

SMC offers the **Early Childhood Education Associate Degree for Transfer**. Students completing this degree are eligible for priority transfer admission consideration in the majors at many **California State University** campuses. In addition, students will be required to complete no more than 60 semester/90 quarter CSU units of coursework after transfer to complete the baccalaureate degree.

NOTE: Students considering transfer to a UC, private, or out-of-state school should consult a counselor BEFORE applying to transfer, as the transfer requirements may be different from those required for the Early Childhood Education AS-T.

The most current list of CSU campuses accepting this Associate Degree for Transfer is available online at calstate.edu/transfer/adt-search/search.shtml

CHILD AND ADOLESCENT DEVELOPMENT, ASSOCIATE DEGREE FOR TRANSFER

The Child and Adolescent Development Associate Degree for Transfer provides a comprehensive understanding of a broad range of human development domains — including social, cognitive, physical, and culture — from birth through adolescence. The degree provides broad undergraduate preparation for students interested in child and adolescent care, as well as a variety of youth-related social service careers.

The degree is designed for students who intend to work with children, youth, and their families in social work, community-based settings, in preparation for elementary or secondary education services, counseling, developmental psychology, and nonprofit agencies.

This AA-T degree will prepare students for transfer to a similar CSU degree, as well as graduate study in disciplines such as child development, counseling, developmental psychology, and social work.

Program Learning Outcomes: Upon completion of the program, students will be able to assess how socialization and culture impact the lives of children and families. Students will also be able to evaluate different perspectives that affect the growth and socialization experiences of infants, children, and adolescents, as well as able to examine the physical, social-emotional, cognitive, language, and cultural influences on development.

Required Core Courses: (15-16 units)

ECE 11, Child, Family and Community (3)

MATH 54, Elementary Statistics (4)

PSYCH 1, General Psychology (3)
 PSYCH 11, Child Growth and Development (3)
 PSYCH 19, Lifespan Human Development (3)

LIST A: Select 1 course from the following: (It is highly recommended that students take ECE 46)

AHIS 11, Art Appreciation: Introduction to Global Visual Culture (3)
 ANTHRO 2, Cultural Anthropology (3)
 BIOL 3, Fundamentals of Biology (4)
 DANCE 5, Dance History (3)
 ECE 46, Infant and Toddler Development (3)
 ECE 64, Health, Safety, and Nutrition for Young Children (3)
 HEALTH 10, Fundamentals of Healthful Living (3)
 HIST 33, World Civilizations I (3)
 MUSIC 30, Music History I (3)
 MUSIC 31, Music History II (3)
 MUSIC 32, Appreciation of Music (3)
 PHILOS 5, Contemporary Moral Conflicts (3)
 SOCIOL 1, Introduction to Sociology (3)
 SOCIOL 1s, Introduction to Sociology - Service Learning (3)
 SOCIOL 12, Sociology of the Family (3)
 SOCIOL 34, Racial and Ethnic Relations in American Society (3) *(same as ETH ST 34)*
 TH ART 2, Introduction to the Theatre (3)
 WGS 10, Introduction to Women's, Gender and Sexuality Studies (3) *(formerly WOM ST 10)*

EARLY CHILDHOOD EDUCATION, ASSOCIATE DEGREE FOR TRANSFER

The Santa Monica College AS-T in Early Childhood Education provides students with a strong academic foundation in the field and prepares them for upper-division baccalaureate study. This coursework will satisfy most of the lower-division Early Childhood Education requirements at many institutions. This degree is intended for students who are interested in Early Childhood Education and are planning on transferring to a four-year university.

Early Childhood Education professionals adhere to the guidelines, as well as the Professional Code of Ethics of the National Association for the Education of Young Children (NAEYC) providing developmentally appropriate learning opportunities for the enhancement of the physical, intellectual, social, emotional, and creative domains of young children.

Completion of this degree will likely give the student priority admission consideration in the majors at many California State University campuses. In addition, the student will need to complete no more than 60 semester/90 quarter CSU units of coursework after transfer to complete the degree. Students considering transfer to a UC, private, or out-of-state university should consult a counselor before applying to transfer, as that institution's transfer requirements might be different from those required for the AS-T in Early Childhood Education.

Program Learning Outcomes: Upon completion of the program, students will demonstrate the knowledge, skills, and dispositions to meet the entry-level requirements for early childhood professionals working in programs regulated by the California Department of Social Services (Title 22). This degree is designed to meet the requirements for the California Child Development Teacher permit and satisfies

the coursework required to transfer to a four-year institution.

Required Core Courses: (27 units)

ECE 2, Principles and Practices of Teaching Young Children (3)
 ECE 11, Child, Family and Community (3)
 ECE 17, Introduction to Curriculum (3)
 ECE 19, Teaching in a Diverse Society (3)
 ECE 21, Observation and Assessment (4)
 ECE 22, Practicum in Early Childhood Education (5)
 ECE 64, Health, Safety and Nutrition for Young Children (3)
 PSYCH 11, Child Growth and Development (3)

EARLY CHILDHOOD STUDIES, ASSOCIATE DEGREE OR CERTIFICATE OF ACHIEVEMENT

Please note: This is NOT the CSU transfer degree. For details about the Early Childhood Education Associate in Science for Transfer (AS-T) to CSU, please see above.

The Early Childhood Studies program focuses on educational practices that emphasize interpersonal relationships, cultural diversity, child-centered curriculum, and the inclusion of children with special needs in all educational opportunities. The curriculum prepares students to teach or administer programs for young children, including private early childhood programs, public programs such as school district children centers, Head Start Programs, and Infant and School Age Programs. The Early Childhood Studies program is geared toward students wishing to prepare for employment in early childhood programs. Emphasis is placed in preparing students for early entry into the workforce. The program provides a sequential path that allows students to obtain the academic requirements for various state permits — Associate Teacher, Assistant Teacher, and Teacher. Students may build on the courses provided by the Early Childhood Studies program to later transfer. However, the AS-T in ECE is the recommended option for students desiring to transfer.

Program Learning Outcomes: Upon completion of the program, students will demonstrate the knowledge, skills, and dispositions to meet the entry-level requirements for early childhood professionals working in programs regulated by the California Department of Social Services (Title 22). This degree is designed to meet the requirements for a California Child Development Teacher Permit.

Required Core Courses: (24 units)

ECE 2, Principles and Practices of Teaching Young Children (3)
 ECE 11, Child, Family and Community (3)
 ECE 21, Observation and Assessment (4)
 ECE 22, Practicum in Early Childhood Education (5)
 ECE 45, Introduction to Children with Special Needs (3)
 ECE 64, Health, Safety and Nutrition for Young Children (3)
 PSYCH 11, Child Growth and Development (3)

Required Curriculum Courses; Select 2 courses from the following: (6 units)

ECE 4, Language and Literature for the Young Child (3)
 ECE 5, Math and Science for the Young Child (3)
 ECE 8, Creative Experiences – Art, Music and Movement (3)
 ECE 17, Introduction to Curriculum (3)

EARLY CHILDHOOD ASSOCIATE TEACHER, CERTIFICATE OF ACHIEVEMENT

Students completing an Early Childhood Associate Teacher certificate are qualified to teach in a private child development program licensed under Title 22 of the Department of Social Services. It also fulfills the educational requirements for students seeking a California Child Development Permit Matrix at the Associate Teacher level issued by the California Commission of Teaching Credentialing. Students that desire to work in an early childhood setting are required to minimally complete these core classes.

Program Learning Outcomes: Upon completion of the program, students will demonstrate the knowledge, skills and dispositions to meet the entry-level requirements for early childhood professionals working in programs regulated by the California Department of Social Services (Title 22). This certificate is designed to meet the Early Childhood Education coursework which is one of the two requirements needed to qualify for the California Child Development Associate Teacher permit.

Required Courses: (9 units)

- ECE 2, Principles and Practices of Teaching Young Children (3)
- ECE 11, Child, Family and Community (3)
- PSYCH 11, Child Growth and Development (3)

Select 1 additional course from the following courses: (3 units)

- ECE 4, Language and Literature for the Young Child (3)
- ECE 5, Math and Science for the Young Child (3)
- ECE 8, Creative Experiences – Art, Music, and Movement (3)
- ECE 17, Introduction to Curriculum (3)

EARLY INTERVENTION/SPECIAL EDUCATION ASSISTANT (FORMERLY EARLY INTERVENTION ASSISTANT), ASSOCIATE DEGREE OR CERTIFICATE OF ACHIEVEMENT

Early Childhood Education majors will be trained to supervise and provide care and learning experiences for children from infancy through eight years of age in a variety of early childhood settings.

Early Childhood Education professionals adhere to the guidelines as well as the Professional Code of Ethics of the National Association for the Education of Young Children (NAEYC), and provide developmentally appropriate learning opportunities for the enhancement of the physical, intellectual, social, emotional, and creative domains of young children.

The Early Intervention/Special Education Assistant program will prepare students for career placements in public and/or private early intervention and educational settings that serve young children with a range of developmental strengths, abilities, and needs. Specific jobs and responsibilities may include serving as an early childhood educator with a specialization in working with children with exceptionalities, a special education assistant for children from birth to eight years of age, a one-to-one assistant for children with exceptionalities (e.g., inclusion facilitator), a classroom assistant with expertise in special needs, or as an assistant teacher on an early intervention team serving infants and toddlers from birth to three years of age.

Program Learning Outcomes: Upon completion of the program, students will demonstrate the knowledge, skills, and dispositions to work with young children with exceptionalities and those who may be at risk of developmental delays and disabilities, and with their families. The degree and certificate programs are appropriate for students working as assistants or paraprofessionals in early intervention or early childhood special education. The degree program is also appropriate for students working as early childhood teachers in an inclusive early childhood program licensed by the California Department of Social Services (Title 22). The degree is designed to meet the requirements for the California Child Development Teacher permit, while the certificate is designed to meet two of the three requirements needed to qualify for the California Child Development Teacher permit.

Required Courses:

- ECE 2, Principles and Practices of Teaching Young Children (3)
- ECE 11, Child, Family and Community (3)
- ECE 17, Introduction to Curriculum (3)
- ECE 21, Observation and Assessment (4)
- ECE 23, Practicum in Early Intervention/Special Education (5)
- ECE 45, Introduction to Children with Special Needs (3)
- ECE 46, Infant and Toddler Development (3)
- ECE 49, Curriculum and Strategies for Children with Special Needs (3)
- ECE 64, Health, Safety and Nutrition for Young Children (3)
- PSYCH 11, Child Growth and Development (3)

INFANT/TODDLER TEACHER, ASSOCIATE DEGREE OR CERTIFICATE OF ACHIEVEMENT

This program prepares students to work with infants/toddlers (0-36 months) enabling the student to assist a teacher in a public infant/toddler program or teach infants/toddlers in a private child care setting. In addition, students will develop skills to create respectful, reciprocal relationships that support, empower, and involve families in their children's learning and development.

Early Childhood Education professionals adhere to the guidelines as well as the Professional Code of Ethics of the National Association for the Education of Young Children (NAEYC) providing developmentally appropriate learning opportunities for the enhancement of the physical, intellectual, social, emotional and creative domains of young children.

Program Learning Outcomes: Upon completion of the program, students will demonstrate an understanding of young children and the multiple interacting influences on children's development and learning in order to create environments that are respectful and supportive for all children, especially those 0-36 months old.

Upon completion of the program, students will demonstrate the ability to create respectful, reciprocal relationships that support and empower families, and involve families in their children's learning and development.

Required Courses:

- ECE 2, Principles and Practices of Teaching Young Children (3)
- ECE 11, Child, Family and Community (3)

ECE 17, Introduction to Curriculum (3)
 ECE 21, Observation and Assessment (4)
 ECE 22, Practicum in Early Childhood Education (5)
 ECE 32, Communicating with Families (3)
 ECE 46, Infant and Toddler Development (3)
 ECE 71, Infants and Toddler Education and Care (3)
 PSYCH 11, Child Growth and Development (3)

ADDITIONAL INFORMATION: CHILD DEVELOPMENT PERMIT MATRIX (WITH ALTERNATIVE QUALIFICATION OPTIONS)

This matrix was prepared by the Child Development Training Consortium. To obtain a permit application, visit childdevelopment.org or call 209-572-6080.

Assistant (optional)

Education Requirement:

OPTION 1:

6 units of Early Childhood Education (ECE)

or

Child Development (CD)

Experience Requirement: None

Alternative Qualifications:

OPTION 2:

Accredited HERO Program (including ROP)

Authorization: Authorizes the holder to care for and assist in the development and instruction of children in a child care and development program under the supervision of an Associate Teacher, Teacher, Master Teacher, Site Supervisor, or Program Director.

Five Year Renewal: 105 hrs. of professional growth*****

Associate Teacher

Education Requirement:

OPTION 1:

12 units of ECE/CD including core courses**

Experience Requirement: 50 days of 3+ hours per day within 2 years

Alternative Qualifications:

OPTION 2:

Child Development Associate (CDA) Credential

Authorization: Authorizes the holder to provide service in the care, development, and instruction of children in a child care and development program, and supervise an Assistant and an aide.

Five Year Renewal: Must complete 15 additional units toward a Teacher Permit. Must meet Teacher requirements within 10 years.

Teacher

Education Requirement:

OPTION 1:

24 units ECE/CD including core courses** plus 16 general education units* plus 6 specialization units, plus 2 adult supervision units

Experience Requirement: 175 days of 3+ hours per day within 4 years

Alternative Qualifications:

OPTION 2:

Associate degree *or* higher in ECE/CD *or* related field with 3 units of supervised field experience in ECE/CD setting

Authorization: Authorizes the holder to provide service in the care, development, and instruction of children in a child care and development program, and supervise an Associate Teacher, Assistant, and an aide.

Five Year Renewal: 105 hours of professional growth*****

Master Teacher

Education Requirement:

OPTION 1:

24 units ECE/CD including core courses**, plus 16 general education units*, plus 6 specialization units, plus 2 adult supervision units

Experience Requirement: 350 days of 3+ hours per day within 4 years

Alternative Qualifications:

OPTION 2:

B.A. *or* higher (does not have to be in ECE/CD) with 12 units of ECE/CD, plus 3 units of supervised field experience in ECE/CD setting

Authorization: Authorizes the holder to provide service in the care, development, and instruction of children in a child care and development program, and supervise a Teacher, Associate Teacher, Assistant, and an aide. The permit also authorizes the holder to serve as a coordinator of curriculum and staff development.

Five Year Renewal: 105 hours of professional growth*****

Site Supervisor

Education Requirement:

OPTION 1:

Associate degree (*or* 60 units) which includes: 24 ECE/CD units with core courses**, plus 6 administration units, plus 2 adult supervision units

Experience Requirement: 350 days of 3+ hours per day within 4 years, including at least 100 days of supervising adults

Alternative Qualifications:

OPTION 2:

B.A. *or* higher (does not have to be in ECE/CD) with 12 units of ECE/CD, plus 3 units of supervised field experience in ECE/CD setting;

or

OPTION 3:

Admin. Credential*** with 12 units of ECE/CD, plus 3 units supervised field experience in ECE/CD setting;

or

OPTION 4:

Teaching credential**** with 12 units of ECE/CD, plus 3 units supervised field experience in ECE/CD settings

Authorization: Authorizes the holder to supervise a child care and development operating as a single site; provide services in the care, development, and instruction of children in a child care and development program; and serve as a coordinator of curriculum and staff development.

Five Year Renewal: 105 hours of professional growth*****

Program Director**Education Requirement:****OPTION 1:**

B.A. **or** higher (does not have to be in ECE/CD) including: 24 ECE/CD units with core courses**, plus 6 administration units, plus 2 adult supervision units
 Experience Requirement: One year of Site Supervisor experience

Alternative Qualifications:**OPTION 2:**

Admin. credential*** with 12 units of ECE/CD, plus 3 units supervised field experience in ECE/CD setting;

or**OPTION 3:**

Teaching credential*** with 12 units of ECE/CD, plus 3 units supervised field experience in ECE/CD setting, plus 6 units administration;

or**OPTION 4:**

Master's Degree in ECE/CD or Child/Human Development

Authorization: Authorizes the holder to supervise a child care and development program operating in a single site or multiple sites; provide service in a care, development, and instruction of children in a child care and development program; and serve as coordinator of curriculum and staff development.

Five Year Renewal: 105 hours of professional growth*****

NOTE: All unit requirement listed above are semester units. All coursework must be completed with a grade of C or better from a regionally accredited college. Spanish translation is available.

**One course in each of four general education categories, which are degree-applicable: English/Language Arts, Math, or Science, Social Science, Humanities and/or Fine Arts.*

***Core courses include child/human growth and development, Child/Family/Community, or Child and Family Relations; and Programs/Curriculum. A student must have a minimum of three semester units or four quarter units in each of the core areas.*

****Holder of the Administrative Services Credential may serve as a Site Supervisor or Program Director.*

*****A valid Multiple Subject or a Single Subject in Home Economics.*

******Professional growth hours must be completed under the guidance of a Professional Growth Advisor. Call 209-572-6080 for assistance in locating an advisor.*

NATURE-BASED PEDAGOGY, CERTIFICATE OF ACHIEVEMENT

This certificate provides a foundation in child development, highlighting nature, environmental education, and stewardship. It includes an exploration of a nature-based pedagogy continuum; from nature-focused activities through forest Kindergarten principles and practices, as well as strategies and resources to support children in developing and fostering a curiosity of the world around them. Cultural diversity and placed-based influences will be a focus.

Outdoor learning environments (OLEs) stimulate the diversity of children's play experience and contribute to their healthy development. Through observation and assessment opportunities, candidates will experience first-hand the outdoor learning environment; discovering skills and understanding required to create, manage, promote, and organize a quality outdoor learning environment for children.

Program Learning Outcomes: Upon completion of the program, students will demonstrate 1, How to assess early childhood outdoor learning environments. 2. Utilize benefit-risk assessment when introducing an outdoor learning experience. 3. Explain how having a quality early childhood outdoor learning environments can positively impact physical activity and healthy eating in young children. 4. Infuse early childhood education with environmental education learning opportunities. 5. Describe how outdoor environments and nature connection can support early childhood development.

Required Courses: (22 units)

ECE 2, Principles and Practices of Teaching Young Children (3)
 ECE 11, Child, Family and Community (3)
 ECE 17, Introduction to Curriculum (3)
 ECE 21, Observation and Assessment (4)
 ECE 76, Children in Nature (3)
 ECE 77, Nature: In, Out and Beyond (3)
 PSYCH 11, Child Growth and Development (3)

TRANSITIONAL KINDERGARTEN, CERTIFICATE OF ACHIEVEMENT

The goal of the Transitional Kindergarten certificate is to provide a strand of unit bearing curriculum specifically designed to meet the needs of current Transitional Kindergarten (TK) teachers as well as Multiple Subject credential holders needing the Early Childhood unit requirement to be a TK teacher.

Program Learning Outcomes: Upon completion of the program, students will be able to develop and align the transitional kindergarten curriculum to the California Preschool Learning Foundations.

Required Courses: (24 units)

ECE 2, Principles and Practices of Teaching Young Children (3)
 ECE 24, Preschool and Early Primary Development (3)
 ECE 25, Assessment in Transitional Kindergarten and Kindergarten (3)
 ECE 26, CA Preschool Foundations and Frameworks 1 (3)
 ECE 27, CA Preschool Foundations and Frameworks 2 (3)
 ECE 28, Practicum in Transitional Kindergarten Teaching (3)
 ECE 29, Reflective Practice Seminar (3)
 ECE 30, Strategies for Working with Challenging Behaviors (3)

Early Childhood Education - Noncredit

This noncredit program serves as an introduction to the theoretical and practical knowledge required for working with

young children in an early care and education setting. The program will help individuals determine their level of interest in the early care and education field, prepare students for credit-bearing coursework in early childhood education, and count toward the professional growth requirement for the renewal of an existing Child Development Permit. The program consists of a sequence of courses that prepares students with the knowledge and skills needed to gain employment as an entry-level assistant teacher or family child care provider. This includes an understanding of child development from birth to age 5, basic principles of early care and education, planning culturally responsive curriculum, communicating with children and families, licensing regulations, health and safety standards, and employment seeking strategies. This Certificate of Completion is not intended as a substitute for any Certificate or Associate in Science – Early Childhood Education or related degrees coursework, which provide state-mandated education and fieldwork experience leading to a Child Development Permit and employment as an early care and education associate teacher or higher. After completing this program, students who wish to pursue a certificate/degree in Early Childhood Education are encouraged to meet with a Counselor to create an Education Plan.

Program Offered:

- Introduction to Early Care and Education Certificate of Completion (Noncredit)

INTRODUCTION TO EARLY CARE AND EDUCATION, CERTIFICATE OF COMPLETION (NONCREDIT)

Program Learning Outcomes: Upon completion of the program, students will demonstrate an understanding of the foundational knowledge and skills needed to work with children ages 0-5 and their families in an early care and education setting. Students will demonstrate an understanding of basic child development theories and how they can be used to support teachers in planning and preparing culturally responsive and developmentally appropriate classroom and curriculum experiences. In addition, students will demonstrate an understanding of the licensing and workforce requirements for group care and education for young children in California.

Required Courses:

- ECE 901, Introduction to Early Care and Education (0)
- ECE 902, Culturally Relevant Curriculum (0)
- ECE 903, Early Care Licensing and Workforce Readiness (0)

Economics

Economists study how society can best use scarce resources such as land, raw materials, capital, and labor. They analyze the relationships between the supply of goods and services and the demand for them, as well as how these goods and services are produced, distributed, and consumed. Some economists work on public issues such as the control of inflation, business cycles, unemployment, wage, tax, and tariff policies. Economics is widely recognized as a solid background for a career in business, government, law, teaching and research.

Programs Offered:

- Transfer Preparation
- Economics Associate Degree for Transfer
Students may satisfy the requirements of this degree with approved courses (which may be fewer units) taken at other California Community Colleges. The courses listed below are SMC courses. If completed entirely at SMC, the academic path requires 21 units.

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

The **University of California system has a transfer pathway** for any UC campus that offers Economics. For more information, visit pathwaysguide.universityofcalifornia.edu

SMC offers the **Economics Associate Degree for Transfer**. Students completing this degree are eligible for priority transfer admission consideration in the majors at many **California State University** campuses. In addition, students will be required to complete no more than 60 semester/90 quarter CSU units of coursework after transfer to complete the baccalaureate degree.

NOTE: Students considering transfer to a UC, private, or out-of-state school should consult a counselor BEFORE applying to transfer, as the transfer requirements may be different from those required for the Economics AA-T.

The most current list of CSU campuses accepting this Associate Degree for Transfer is available online at calstate.edu/transfer/ad-search/search.shtml

ECONOMICS, ASSOCIATE DEGREE FOR TRANSFER

The Associate in Arts in Economics for Transfer (AA-T) involves the study of how society can best use scarce resources such as land, raw materials, capital, and labor. The course of study analyzes the relationships between the supply of goods and services and the demand for them, as well as how these goods and services are produced, distributed, and consumed. Some economists work on public issues such as the control of inflation, business cycles, unemployment, wage, tax, and tariff policies. Economics is widely recognized as a solid background for a career in business, government, law, teaching and research.

Upon successful completion of the Associate in Arts in Economics for Transfer (AA-T), students will have a strong academic foundation in the field and be prepared for upper-division baccalaureate study. Completion of the degree indicates that the student will have satisfied the lower-division requirements for transfer into economics or similar

majors for many campuses in the California State University system.

Program Learning Outcomes: Upon completion of the program, students will demonstrate, through written and oral academic work, an understanding of how the market economy fundamentally operates. Specifically, students will develop the quantitative reasoning and critical analytic/graphical skills necessary to comprehend and explain basic microeconomic and macroeconomic concepts and functions, including, but not limited to, supply and demand, pricing decision, firm's production decisions and profit maximization decision under various market structures, contending perspectives of economic thought, and the impacts of government policies (fiscal and monetary policies) on gross domestic product, unemployment, inflation, budget deficits, national debt, foreign currency, and the international economy.

Required Core Courses:

- ECON 1, Principles of Microeconomics (3)
- ECON 2, Principles of Macroeconomics (3)
- MATH 54, Elementary Statistics (4)

Required Calculus Courses:

- MATH 7, Calculus 1 (5)

or

- MATH 28, Calculus 1 for Business and Social Science (5)

LIST A: Select 1 course from the following: (3 units minimum)

- ACCTG 1, Introduction to Financial Accounting (5)
 - ACCTG 2, Corporate Financial and Managerial Accounting (5)
 - ARABIC 1, Elementary Arabic 1 (5)
 - BUS 5, Business Law and the Legal Environment (3)
 - BUS 6, Advanced Business Law (3) (formerly same as ACCTG 26)
 - BUS 32, Business Communications (3)
 - CHNESE 1, Elementary Chinese 1 (5)
 - CHNESE 2, Elementary Chinese 2 (5)
 - ENGL 2, Critical Analysis and Intermediate Composition (3)
 - ENGL 70, Technical Communication (3)
 - HIST 47, The Practice of History (3)
 - MATH 2, Precalculus (5)
 - MATH 8, Calculus 2 (5)
 - MATH 29, Calculus 2 for Business and Social Science (3)
 - SPAN 1, Elementary Spanish I (5)
 - SPAN 2, Elementary Spanish II (5)
 - SPAN 3, Intermediate Spanish I (5)
 - SPAN 4, Intermediate Spanish II (5)
 - SPAN 11, Spanish for Heritage Speakers I (5)
 - SPAN 12, Spanish for Native Speakers 2 (5)
- Other SMC Modern Language courses may be substituted.

LIST B: Select 1 course from the following: (3 units minimum)

- Any course not used in List A
- ECON 5, International Political Economy: Introduction to Global Studies (3) (same as POL SC 5 and GLOBAL 5)
- ECON 6, Contemporary Economic Problems (3)
- ECON 15, Economic History of the U.S. (3) (same as HIST 15)

GLOBAL 5, International Political Economy:

Introduction to Global Studies (3) (same as ECON 5 and POL SC 5)

HIST 15, Economic History of the U.S. (3) (same as ECON 15)

MATH 11, Multivariable Calculus (5)

MATH 13, Linear Algebra (3)

POL SC 5, International Political Economy: Introduction to Global Studies (same as ECON 5 and GLOBAL 5)

Education

Programs Offered:

- Transfer Preparation

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

Energy Efficiency

This program is designed to provide formal training for individuals who seek entry into the Energy Services field. Students will learn to conduct energy audits in residential buildings; establish energy efficiency benchmarks for commercial buildings and data center physical infrastructures; and help utilize resources more efficiently by reducing lighting, and lowering heating and cooling energy consumption in building systems and processes.

Students will learn to provide analyses and recommendations that will help suggest alternative energy sources, as well as unconventional lighting, cooling, space heating, and resource management procedures.

Programs Offered:

- Energy Efficiency Specialist Department Certificate (13 units)
- See also Photovoltaic Installation

ENERGY EFFICIENCY SPECIALIST, DEPARTMENT CERTIFICATE

Program Learning Outcomes: Students will be able to identify the salient concerns related to safe and efficient energy use in the built environment and the issues that threaten the ecological conditions on the planet related to energy production and use. Students will be able to explain how a solar cell converts sunlight into electrical power and how power is conditioned for use in buildings. Students will be proficient in conducting an energy utilization index (EUI)

analysis. Students will be able to recognize the physical properties that consume or produce energy in residential and commercial energy systems, including HVAC, lighting, and renewable energy systems. Students will be able to apply appropriate regulatory codes when conducting energy efficiency requirements for new and existing buildings, and compliance with new Zero Net Energy (ZNE) code requirements.

Required Courses:

- ENERGY 1, Introduction to Energy Efficiency (3)
- ENERGY 2, Residential Building Science (3)
- ENERGY 3, Commercial Building Science (4)
- PV 11, Introduction to Solar Photovoltaics (3)

Engineering

Engineers apply the theories and principles of science and mathematics to research and develop economical solutions to practical technical problems. Their work is the link between scientific discoveries and commercial applications. Engineers design products, the machinery to build those products, the factories in which those products are made, and the systems that ensure the quality of the product and efficiency of the workforce and manufacturing process. There are a variety of engineering fields: electrical, mechanical, civil, industrial, aeronautical, chemical, materials, nuclear, petroleum and mining engineering.

Programs Offered:

- Transfer Preparation
- Engineering Associate Degree
- Engineering Certificate of Achievement
- Introduction to Engineering Certificate of Achievement

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

The **University of California system has a transfer pathway** for any UC campus that offers Electrical Engineering and Mechanical Engineering. For more information, visit pathwaysguide.universityofcalifornia.edu

Due to the competitive nature of Engineering programs, students are advised to complete as many lower-division courses as possible prior to transfer. Please see a counselor for more information.

To be minimally eligible to transfer to a UC campus, transfer students must complete four (4) general education courses chosen from at least two of the following areas: Arts and Humanities, Social and Behavioral Sciences, Physical and Biological Science, and two composition courses. Please see

a Santa Monica College counselor for additional information.

ENGINEERING, ASSOCIATE DEGREE OR CERTIFICATE OF ACHIEVEMENT

The Engineering program provides students with a fundamental knowledge of engineering and familiarizes them with modern engineering design tools and skills. In addition, students will be prepared for engineering internship opportunities or entry-level industrial jobs, through developing skills in areas such as computer drafting, solid modeling, circuit build and design, and problem solving. Upon completion of this program, students will also have a strong academic foundation in the field and be prepared for upper division baccalaureate study.

Program Learning Outcomes: Upon completion of the program, students will demonstrate basic knowledge of engineering principles of design and analysis, and exhibit effective communication skills and ethical behavior as shown through their written work, teamwork, and lab work.

Required Mathematics Courses: (10 units)

- MATH 7, Calculus 1 (5)
- MATH 8, Calculus 2 (5)

Select 2 Physics Courses: (10 units)

- PHYSCS 21, Mechanics with Lab (5)
- PHYSCS 22, Electricity and Magnetism with Lab (5)
- PHYSCS 23, Fluids, Waves, Thermodynamics, Optics with Lab (5)

Select 1 Computer Science Course: (3 units)

- CS 30, MATLAB Programming (3)
- CS 50, C Programming (3)

Required Engineering Courses: (5 units)

- ENGR 1, Introduction to Engineering (2)

- ENGR 11, Engineering Graphics and Design (3)

or

- ENGR 21, Circuit Analysis (3)

and

- ENGR 22, Circuit Analysis Lab (1)

Elective Engineering Course: (3 units)

Select 1 course from the following if not used above:

- ENGR 11, Engineering Graphics and Design (3)
- ENGR 12, Statics (3)
- ENGR 16, Dynamics (3)
- ENGR 21, Circuit Analysis (3)

INTRODUCTION TO ENGINEERING, CERTIFICATE OF ACHIEVEMENT

The Engineering Certificate program exposes students to the broad field of engineering and modern engineering design tools and skills. In addition, students will be prepared for engineering internship opportunities, through developing skills in areas such as solid modeling, engineering build and design, and problem solving.

Program Learning Outcomes: Upon completion of the program, students will demonstrate basic knowledge of engineering principles of design and analysis, and exhibit effective communication skills and ethical behavior as shown through their written work, teamwork, and lab work.

Required Mathematics Course: (5 units)

- MATH 7, Calculus 1 (5)

Required Physics Course: (5 units)

PHYSCS 21, Mechanics with Lab (5)

Required Engineering Course: (2 units)

ENGR 1, Introduction to Engineering (2)

Elective Engineering Course: (3 units)

ENGR 11, Engineering Graphics and Design (3)

ENGR 12, Statics (3)

ENGR 16, Dynamics (3)

ENGR 21, Circuit Analysis (3)

English

Students in SMC's English programs develop written and spoken mastery of the English language, creativity of thought, and an appreciation of the language's literature. The English academic and career path can lead to a career in teaching at all levels. Additional careers include advertising copywriter, editor, foreign correspondent, literary agent, media planner, reporter, fundraiser, paralegal, public administrator, speechwriter, information abstractor/information indexer, interpreter, and translator.

Programs Offered:

- Transfer Preparation
- See also Liberal Arts – Arts and Humanities

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

The **University of California system has a transfer pathway** for any UC campus that offers English. For more information, visit pathwaysguide.universityofcalifornia.edu

English as a Second Language (ESL) – Noncredit

The noncredit programs in English as a Second Language are designed to assist ESL learners in developing listening, speaking, reading, and writing skills to communicate effectively in situations they encounter at work, school, and in the community. The Noncredit Certificates of Competency prepare students to progress on a career path of their choice and/or to undertake degree-applicable or non-degree-applicable credit courses. *These Certificates of Competency are not intended as a substitute for any credit certificate or Associate degree.*

Transfer and program requirements are subject to change. For the most up-to-date information regarding transfer preparation visit assist.org and regarding degree and certificate requirements visit smc.edu/articulation.

Programs Offered:

- Beginning English as a Second Language Certificate of Competency (Noncredit)
- Low Intermediate ESL Certificate of Competency (Noncredit)
- Intermediate English as a Second Language Certificate of Competency (Noncredit)
- Low Advanced ESL Certificate of Competency (Noncredit)
- Advanced English as a Second Language Certificate of Competency (Noncredit)
- ESL for College and Career Pathways Certificate of Competency (Noncredit)

BEGINNING ENGLISH AS A SECOND LANGUAGE, CERTIFICATE OF COMPETENCY (NONCREDIT)

This Noncredit Certificate of Competency in Beginning ESL assists beginning ESL learners in developing basic listening, speaking, reading, and writing skills to communicate in familiar situations they encounter at work, school, and in the community. The Noncredit Certificate of Competency in Beginning ESL prepares students to progress on a career path of their choice and/or to undertake degree-applicable or non-degree-applicable credit courses.

Program Learning Outcomes: Upon completion of the Beginning ESL program, students will demonstrate beginning level competence in English language skills of listening, speaking, reading, and writing in a variety of contexts. Students will be able to converse appropriately with diverse partners of familiar topics, demonstrate effective study strategies, identify main ideas and key details in short readings on familiar topics, demonstrate the ability to read a note and write a short response, describe familiar people, places, activities and/or possessions using target vocabulary, recount key information from listening passages on familiar topics, and identify the qualities of an effective employee in the American workplace.

Required Course:

ESL 902, English as a Second Language Level 2 (0)

Select 1 of the following courses:

ESL 901, English as a Second Language Level 1 (0)

ESL 911, Beginning Listening and Speaking (0)

ESL 961, Beginning Reading and Writing (0)

ESL 971, Beginning ESL Vocabulary (0)

LOW INTERMEDIATE ESL, CERTIFICATE OF COMPETENCY (NONCREDIT)

This Noncredit Certificate of Competency in Low Intermediate ESL assists low intermediate ESL learners in developing basic listening, speaking, reading, and writing skills to communicate in familiar situations they encounter at work, school, and in the community. The Noncredit Certificate of Competency in Low Intermediate ESL prepares students to progress on a career path of their choice and/or to undertake degree-applicable or non degree-applicable credit courses.

Program Learning Outcomes: Upon completion of the Low Intermediate ESL program, students will demonstrate low intermediate level competence in English language skills of listening, speaking, reading, and writing in a variety of contexts. Students will be able to demonstrate communicative competence by orally reporting factual information on

a familiar topic, demonstrate writing proficiency in short form writing describing an activity including details, apply constructive criticism to improve job/school performance, demonstrate effective study strategies, identify main ideas and supporting ideas in informational listening passages, identify effective pre-reading, reading, and post-reading strategies, identify main ideas and supporting details in a text, compose a written text on a topic covered in class that incorporates appropriate target vocabulary.

Required Course:

ESL 903, English as a Second Language Level 3 (0)

Select 1 of the following courses:

ESL 913, Intermediate Listening and Speaking (0)

ESL 963, Intermediate Reading and Writing (0)

ESL 973, Intermediate ESL Vocabulary (0)

INTERMEDIATE ENGLISH AS A SECOND LANGUAGE, CERTIFICATE OF COMPETENCY (NONCREDIT)

This Noncredit Certificate of Competency in Intermediate ESL assists intermediate ESL learners in developing basic listening, speaking, reading, and writing skills to communicate in familiar situations they encounter at work, school, and in the community. The Noncredit Certificate of Competency in Intermediate ESL prepares students to progress on a career path of their choice and/or to undertake degree-applicable or non degree-applicable credit courses.

Program Learning Outcomes: Upon completion of the Intermediate ESL program, students will demonstrate intermediate level competence in English language skills of listening, speaking, reading, and writing in a variety of contexts. Students will be able to show proficiency in oral presentation focused on solving a problem, organize a plan of action (orally or in writing) for short and long-term goals, demonstrate effective study strategies including for learning and practicing new vocabulary, demonstrate listening proficiency by identifying main ideas and supporting ideas in informational listening passages, identify main ideas and supporting details in a text, compose a correctly formatted narrative or informational paragraph, describe a process in writing using appropriate transitions, demonstrate appropriate word choice and word form in written work.

Required Course:

ESL 904, English as a Second Language Level 4 (0)

Select 1 of the following courses:

ESL 903, English as a Second Language Level 3 (0)

ESL 913, Intermediate Listening and Speaking (0)

ESL 963, Intermediate Reading and Writing (0)

ESL 973, Intermediate ESL Vocabulary (0)

LOW ADVANCED ESL, CERTIFICATE OF COMPETENCY (NONCREDIT)

This Noncredit Certificate of Competency in Low Advanced ESL assists low advanced ESL learners in developing effective listening, speaking, reading, and writing skills to communicate in situations they encounter at work, school, and in the community. The Noncredit Certificate of Competency in Low Advanced ESL prepares students to progress on a career path of their choice and/or to undertake degree-applicable or non degree-applicable credit courses.

Program Learning Outcomes: Upon completion of the Low Advanced ESL program, students will demonstrate low advanced level competence in English language skills of listening, speaking, reading, and writing in a variety of contexts. Students will be able to demonstrate listening proficiency by summarizing the main ideas of a workplace or academic presentation, give an oral summary of information acquired aurally, employ effective pre-reading, reading, and post-reading strategies to understand and analyze more complex text, demonstrate writing proficiency in a narrative essay using present past and future tenses, compose a written text that incorporates appropriate academic vocabulary, demonstrate effective study strategies including strategies for acquiring academic vocabulary, demonstrate the ability to contribute as a member of a team.

Required Course:

ESL 905, English as a Second Language Level 5 (0)

Select 1 of the following courses:

ESL 915, Advanced Listening and Speaking (0)

ESL 965, Advanced Reading and Writing (0)

ESL 975, Advanced ESL Vocabulary (0)

ADVANCED ENGLISH AS A SECOND LANGUAGE, CERTIFICATE OF COMPETENCY (NONCREDIT)

This Noncredit Certificate of Competency in Advanced ESL assists advanced ESL learners in developing listening, speaking, reading, and writing skills to communicate effectively in situations they encounter at work, school, and in the community. The Noncredit Certificate of Competency in Advanced ESL prepares students to progress on a career path of their choice and/or to undertake degree-applicable or non degree-applicable credit courses.

Program Learning Outcomes: Upon completion of the Advanced ESL program, students will demonstrate advanced level competence in English language skills of listening, speaking, reading, and writing in a variety of contexts. Students will be able to demonstrate proficiency in oral presentation with emphasis on comparison, demonstrate the ability to research and write about a problem and its possible solution, demonstrate awareness of the sources of cultural misunderstandings and the ability to demonstrate strategies for effective communication across cultures, demonstrate effective study strategies, demonstrate communicative competence by asking and answering questions in a formal setting, demonstrate listening proficiency by summarizing the main ideas of a workplace or academic presentation, employ effective pre-reading, reading, and post-reading strategies to understand and analyze more complex text, compose correctly formatted multi-paragraph compositions to inform, describe, narrate, and/or persuade, demonstrate awareness of appropriate word choice in a formal oral presentation.

Required Course:

ESL 906, English as a Second Language Level 6 (0)

Select 1 of the following courses:

ESL 905, English as a Second Language Level 5 (0)

ESL 915, Advanced Listening and Speaking (0)

ESL 965, Advanced Reading and Writing (0)

ESL 975, Advanced ESL Vocabulary (0)

ESL FOR COLLEGE AND CAREER PATHWAYS, CERTIFICATE OF COMPETENCY (NONCREDIT)

This Noncredit Certificate of Competency in ESL for College and Career Pathways assists non-native English speakers in developing English language and study skills related to specific academic and career contexts. Students who complete this program are introduced to critical thinking, teamwork, cultural awareness, and autonomous learning strategies that are transferable to college and career.

Program Learning Outcomes: Upon completion of the program, students will demonstrate knowledge of appropriate workplace communication, discuss experience, qualifications, and skills in a job interview, interact appropriately in a variety of authentic work-related contexts, and demonstrate the ability to research and present about a topic in a specific career or academic field orally or in writing.

Required Courses:

- ESL 994, ESL for College and Career Pathways - Introduction (0)
- ESL 995, ESL for College and Career Pathways – Effective Communication (0)

Entertainment Technology

See Animation

See Digital Media Post-Production

Environmental Science

The Environmental Science program is an interdisciplinary and multidisciplinary course of study that presents an overview of ecological issues from a scientific perspective. With a broad foundation across the natural sciences, the coursework examines the interrelated nature of environmental and social systems. This program is designed to equip students with the skills and tools to successfully use the scientific method while studying and solving environmental problems.

Programs Offered:

- Transfer Preparation
- Environmental Science Associate Degree
- Environmental Science Certificate of Achievement (40 units)

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

Transfer and program requirements are subject to change. For the most up-to-date information regarding transfer preparation visit assist.org and regarding degree and certificate requirements visit smc.edu/articulation.

ENVIRONMENTAL SCIENCE, ASSOCIATE DEGREE OR CERTIFICATE OF ACHIEVEMENT

Program Learning Outcomes: Upon completion of the program, students will demonstrate through oral and written work knowledge of the physical, biological, and social sciences required to effectively address current environmental issues, and be prepared to pursue further study in an Environmental Science program (or related field of study) at the baccalaureate level. In addition, students will be proficient in the research, analytical, and communication skills necessary to present a critical analysis of the interplay between natural and social systems, the attitudes and behaviors that impact and affect the environment, and proposed solutions to the myriad environmental challenges facing the world today.

Required Life Science Courses: (13 units)

- BIOL 10, Applied Ecology and Conservation Biology (4)
- BIOL 22, Genetics and Molecular Biology (4)
- BIOL 23, Organismal and Environmental Biology (5)

Required Chemistry Courses: (10 units)

- CHEM 11, General Chemistry I (5)
- CHEM 12, General Chemistry II (5)

Geology and/or Physics Courses; Select 1 of the following courses: (4 units minimum)

- GEOL 4, Physical Geology with Lab (4)
- PHYS 6, General Physics 1 with Lab (4)
- PHYS 7, General Physics 2 with Lab (4)
- PHYS 8, Calculus-based General Physics 1 with Lab (4)
- PHYS 9, Calculus-based General Physics 2 with Lab (4)
- PHYS 21, Mechanics with Lab (5)
- PHYS 22, Electricity and Magnetism with Lab (5)

Required Mathematics Courses: (10 units)

- MATH 7, Calculus 1 (5)
- MATH 8, Calculus 2 (5)

Economics Courses; Select 1 of the following courses: (3 units)

- ECON 1, Principles of Microeconomics (3)
- ECON 2, Principles of Macroeconomics (3)
- ECON 4, Environmental Economics (3) (*same as ENVRN 4*)

Environmental Studies

The Environmental Studies program is an interdisciplinary and multidisciplinary course of study that presents a broad overview of ecological issues from a variety of perspectives. The coursework examines the interplay between natural and social systems, and the ideological foundations of humankind's attitudes and behaviors with respect to their ever-changing environments. This program is designed to prepare students to research, analyze, and propose solutions to the myriad environmental challenges facing the world today.

Programs Offered:

- Transfer Preparation
- Environmental Studies Associate Degree
- Environmental Studies Certificate of Achievement (24 units)

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

ENVIRONMENTAL STUDIES, ASSOCIATE DEGREE OR CERTIFICATE OF ACHIEVEMENT

Program Learning Outcomes: Upon completion of the program, students will demonstrate through oral and written work a familiarity with both governmental and non-governmental efforts focused on environmental issues and be prepared to pursue further study in an Environmental Studies program (or related field of study) at the baccalaureate level. In addition, students will be proficient in the research, analytical, and communication skills necessary to present a critical analysis of the interplay between natural and social systems, the attitudes and behaviors that impact and affect the environment, and proposed solutions to the myriad environmental challenges facing the world today.

Required Core Courses: (6 units)

- BIOL 9, Environmental Biology (3)
- ENVRN 7, Introduction to Environmental Studies (3)
(same as GEOG 7)

Select 1 course from the following: (3 units)

- ENVRN 14, US Environmental History (3) (same as HIST 14)
- ENVRN 20, Environmental Ethics (3) (same as PHILOS 20)
- ENVRN 22, Environmental Politics and Policies (3)
(same as POL SC 22)
- ENVRN 32, Global Environmental History (3) (same as HIST 32)
- ENVRN 40, Environmental Psychology (3) (same as PSYCH 40)

Field Studies/Applied; Select at least 3 units from the following:

- BIOLOGY 45A-Z, Field Studies in Natural History (1)
- BIOLOGY 46A-Z, Field Studies in Natural History (1)
- BOTANY 3, Field Botany (4)
- GEOG 20, Introduction to Geographic Information Systems (3) (same as GIS 20)
- GEOG 35F, Field Study: California (1)
- GEOG 35s, Geography Field Studies (1)

Ecology/Physical Science/Natural Science; Select at least 3 units from the following:

- BIOL 3, Fundamentals of Biology (4)
- BIOL 15, Marine Biology with Laboratory (4)
- BIOL 15N, Marine Biology (No-Laboratory) (3)
- BIOL 21, Cell Biology and Evolution (4)
- BOTANY 1, General Botany (4)
- CHEM 9, Everyday Chemistry (5)

- CHEM 10, Introductory General Chemistry (5)
- CHEM 19, Fundamentals of General, Organic, and Biological Chemistry (5)
- PHYSICS 6, General Physics 1 with Lab (4)
- PHYSICS 8, Calculus-based General Physics 1 with Lab (4)
- PHYSICS 14, Introductory Physics with Laboratory (4)
- ZOOL 5, Introductory Zoology (4)

Earth Science: Select at least 3 units from the following:

- GEOG 1, Physical Geography (3)
- GEOG 3, Weather and Climate (3)
- GEOG 5, Physical Geology with Lab (4)
- GEOLOG 1, Physical Geology without Lab (3)
- GEOLOG 3, Introduction to Environmental Geology (3)
- GEOLOG 4, Physical Geology with Lab (4)
- GEOLOG 31, Introduction to Physical Oceanography (3)

Social Science: (6 units required as specified)

GROUP A: Select 1 course from the following:

- ECON 1, Principles of Microeconomics (3)
- ECON 2, Principles of Macroeconomics (3)
- ECON 4, Environmental Economics (3) (same as ENVRN 4)
- POL SC 1, American and California Politics (3)

GROUP B: Select 1 course from the following not used to satisfy other requirements of the program: (3 units)

- ANTHRO 2, Cultural Anthropology (3)
- BUS 7, Introduction to Sustainability in Business (3)
- ENVRN 14, U.S. Environmental History (3) (same as HIST 14)
- ENVRN 20, Environmental Ethics (3) (same as PHILOS 20)
- ENVRN 22, Environmental Politics and Policies (3)
(same as POL SC 22)
- ENVRN 32, Global Environmental History (3) (same as HIST 32)
- ENVRN 40, Environmental Psychology (3) (same as PSYCH 40)
- GEOG 2, Introduction to Human Geography (3)
- GEOG 8, Introduction to Urban Studies (3) (same as URBAN 8)
- GEOG 11, World Geography: Introduction to Global Studies (3) (same as GLOBAL 11)
- GEOG 14, Geography of California (3)
- PSYCH 1, General Psychology (3)
- SOCIOL 1, Introduction to Sociology (3)
- SOCIOL 1s, Introduction to Sociology – Service Learning (3)
- SOCIOL 2, Social Problems (3)
- SOCIOL 2s, Social Problems – Service Learning (3)

Ethnic Studies

Programs in Ethnic Studies are designed to help students study different cultures and societies of the world. These programs include the study of the history, politics, religion, languages, and cultures of different areas. The aim of Ethnic Studies programs is to broaden the awareness and understanding of one or more ethnic groups and their contribution to American culture. Ethnic Studies programs are usually interdisciplinary: the historical, cultural, social, political, economic, psychological, and literary patterns and contributions of ethnic groups are studied.

Programs Offered:

- Transfer Preparation
- Ethnic Studies Associate Degree
- Ethnic Studies Certificate of Achievement (21 units)

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

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ETHNIC STUDIES, ASSOCIATE DEGREE OR CERTIFICATE OF ACHIEVEMENT

Program Learning Outcomes: Upon completion of the program, students will demonstrate through oral and written work a familiarity with the social experiences and the contributions of various racial and ethnic groups to US society, and be prepared to pursue further study in an Ethnic Studies program (or related field of study) at the baccalaureate level. In addition, students will be proficient in the research, analytical, and communication skills necessary to present critical analysis regarding racial and ethnic group relations in the US.

Required Core Courses; Select 3 courses from the following:

- ENGL 10, Race and Ethnicity in Literature of the U.S. (3)
- HIST 10, Ethnicity and American Culture (3)
- POL SC 21, Race, Ethnicity, and the Politics of Difference (3)
- SOCIOL 34, Racial and Ethnic Relations in American Society (3)

Please note: For the Ethnic Studies, it is HIGHLY RECOMMENDED (though not required) that students complete two years of one foreign language in high school or at least the first semester at Santa Monica College of a foreign language selected from the following courses: ARABIC 1, CHNESE 1; HEBREW 1; JAPAN 1; KOREAN 1; PERSIN 1; PORTGS 1; SPAN 1 or 11.

Arts: Select 1 of the following courses: (3 units)

- AHIS 72, American Art History (3)
- DANCE 2, Dance in American Culture (3)
- MUSIC 33, Jazz in American Culture (3)
- MUSIC 37, Music in American Culture (3)

Inter-Ethnic Studies: Select 1 of the following courses: (3 units)

- ANTHRO 2, Cultural Anthropology (3)
- COM ST 14, Oral Interpretation: Performing Literature Across Cultures (3)
- COM ST 37, Intercultural Communication (3)
- FILM 7, American Cinema: Crossing Cultures (3)
- GEOG 2, Introduction to Human Geography (3)
- GEOG 14, Geography of California (3)

MEDIA 10, Media, Gender, and Race (3)

NUTR 7, Food and Culture in America (3)

SOCIOL 1, Introduction to Sociology (3)

SOCIOL 1s, Introduction to Sociology–Service Learning (3)

Intra-Ethnic Studies: Select 3 units from 2 different areas: (6 units)

Art:

AHIS 71, African American Art History (3)

English:

ENGL 34, Afro-American Literature (3)

ENGL 41, Introduction to Asian American Literature (3)

ENGL 53, Latino Literature in the United States (3)

ENGL 54, Native American Literature (3)

History:

HIST 16, African-American History (3)

HIST 41, Native-American History (3)

HIST 42, The Latina/o Experience in the United States (3)

HIST 43, Mexican-American History (3)

HIST 62, Asian-American History (3)

Sociology:

SOCIOL 30, African Americans in Contemporary Society (3)

SOCIOL 31, Latinas/os in Contemporary Society (3)

SOCIOL 32, Asian Americans in Contemporary Society (3)

Fashion Design and Merchandising

Fashion Design

Fashion design students develop skills in design communication, including preliminary sketching, technical flat sketching, illustration, and usage of Adobe Photoshop, Illustrator and CAD software. Skills in draping, pattern drafting from draping and body measurements, and basic sewing skills to advanced construction are developed in order to create sample garments for production and sales.

Fashion Merchandising

Fashion merchandising students learn and experience each step of the development, promotion, and sales of fashion and lifestyle product lines. Fashion trends are identified and analyzed in order to understand the direction of product development, the positioning in the marketplace, the importance of proper sales representation via visual presentation, advertising, public relations, and social media in the fashion cycle from initial concept to brick-n-mortar and e-commerce sales.

Programs Offered:

- Transfer Preparation
- Fashion Design Associate Degree
- Fashion Merchandising Associate Degree
- Fashion Design Certificate of Achievement (40 units)
- Fashion Merchandising Certificate of Achievement (40 units)

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

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FASHION DESIGN, ASSOCIATE DEGREE OR CERTIFICATE OF ACHIEVEMENT

See recommended course sequence below.

Program Learning Outcomes: Upon completion of the program, students will demonstrate the ability to channel their creativity into marketable fashion and lifestyle product lines, understanding the various design challenges, fit, textile fabrications, cost, sizing, design editing, and aesthetics for various target markets; understand production in wholesale and retail in order to meet consumer needs while creating forward trend directions. Program electives bridge communication with fashion merchandising concepts, ensuring creativity and marketability. Students develop an awareness of art, visual communication, global culture, computer technology, and business in the design process. Additionally, students will have skills pertinent to successfully enter third-year college fashion design programs, translate their internship experiences into positions at small to large-scale design firms, or create their own design line.

FIRST LEVEL COURSES:

- FASHN 1, Introduction to the Fashion Industry (3)
- FASHN 2, Color Analysis (3)
- FASHN 3, Apparel Construction (3)

SECOND LEVEL COURSES:

- FASHN 5, Fashion Buying (3)
- FASHN 6A, Pattern Analysis and Design (2)
- FASHN 7, Fabrics for Fashion Design and Merchandising (3)
- FASHN 8, History of Fashion Design (3)

THIRD LEVEL COURSES:

- FASHN 1, Introduction to the Fashion Industry (3)
- FASHN 9A, Introduction to Fashion Illustration (3)
- FASHN 13, Draping I (3)

FOURTH LEVEL COURSES:

- FASHN 12, Fashion Show Production (3)
- FASHN 18, Computer Aided Fashion Design and Merchandising (2)

ELECTIVE COURSES: *Select a minimum of 6 units from the list of courses below:*

- ACCTG 1, Introduction to Financial Accounting (5)
- ART 10A, Design I (3)
- ART 20B, Drawing II – Drawing with Color (3)
- BUS 21, Merchandising Principles (3)
- BUS 63, Principles of Entrepreneurship (3)

- FASHN 6B, Pattern Drafting and Design Intermediate (3)
- FASHN 9B, Advanced Fashion Illustration and Advertising (2)
- FASHN 11, Advanced Clothing – Tailoring (2)
- FASHN 14, Draping II (3)
- FASHN 15, Ethnic Fashion (3)
- FASHN 16, Pattern Grading (2)
- FASHN 17, Apparel Production Manufacturing Techniques (3)
- FASHN 19, Fashion Marketing (3)
- FASHN 20, Fashion Styling and Visual Presentation (3)
- FASHN 21, Digital Fashion Portfolio (2)
- FASHN 88A, Independent Studies in Fashion (1)
- FASHN 88B, Independent Studies in Fashion (2)
- FASHN 88C, Independent Studies in Fashion (3)
- FASHN 90A, Fashion Internship (1)
- FASHN 90B, Fashion Internship (2)
- FASHN 90C, Fashion Internship (3)

SUGGESTED COURSE SEQUENCE:

First Year Fall:

- FASHN 1, Introduction to the Fashion Industry (3)
- FASHN 2, Color Analysis (3)
- FASHN 3, Apparel Construction (3)
- Non-fashion elective (3)

First Year Spring:

- FASHN 5, Fashion Buying (3)
- FASHN 6A, Pattern Analysis and Design (2)
- FASHN 7, Fabrics for Fashion Design and Merchandising (3)
- FASHN 8, History of Fashion Design (3)

Second Year Fall:

- FASHN 9A, Introduction to Fashion Illustration (3)
- FASHN 10, Advanced Design and Construction (3)
- FASHN 13, Draping I (3)

Second Year Spring:

- FASHN 12, Fashion Show Production (3)
- FASHN 18, Computer Aided Fashion Design and Merchandising (2)
- Fashion elective (3)

FASHION MERCHANDISING, ASSOCIATE DEGREE OR CERTIFICATE OF ACHIEVEMENT

See recommended course sequence below.

Program Learning Outcomes: Upon completion of the program, students will demonstrate the ability to analyze and assess the marketable trends in fashion and lifestyle product lines for all target markets; understand the logistics from fashion production to wholesale, retail, and resale; develop pre- and post-promotional activities necessary to launch brands/private labels in order to maintain success in the local and global marketplace; utilize critical thinking in solving design, sales, or promotional issues; have the ability to utilize software applicable to promotional needs, and understand the working relationship between designers and marketers. Additionally, students will have skills pertinent to successfully entering third-year college fashion programs, advancing in management positions, or entering major retail executive buying/ management training programs.

FIRST LEVEL COURSES:

- FASHN 1, Introduction to the Fashion Industry (3)
FASHN 2, Color Analysis (3)

SECOND LEVEL COURSES:

- FASHN 3, Apparel Construction (3)
FASHN 5, Fashion Buying (3)
FASHN 7, Fabrics for Fashion Design and Merchandising (3)
FASHN 8, History of Fashion Design (3)

THIRD LEVEL COURSES:

- BUS 21, Merchandising Principles (3)
FASHN 18, Computer Aided Fashion Design and Merchandising (2)
FASHN 20, Fashion Styling and Visual Presentation (3)

FOURTH LEVEL COURSES:

- BUS 23, Principles of Selling (3)
FASHN 12, Fashion Show Production (3)

ELECTIVE COURSES: *Select a minimum of 8 units from the list of courses below:*

- ACCTG 1, Introduction to Financial Accounting (3)
ART 10A, Design I (3)
ART 20B, Drawing II – Drawing with Color (3)
BUS 25, Advertising Display (3)
BUS 63, Principles of Entrepreneurship (3)
FASHN 6A, Pattern Analysis and Design (2)
FASHN 6B, Pattern Drafting and Design Intermediate (3)
FASHN 9A, Introduction to Fashion Illustration (3)
FASHN 9B, Advanced Fashion Illustration and Advertising (2)
FASHN 10, Advanced Design and Construction (3)
FASHN 11, Advanced Clothing – Tailoring (2)
FASHN 13, Draping I (3)
FASHN 14, Draping II (3) (*prerequisite: FASHN 13*)
FASHN 15, Ethnic Fashion (3)
FASHN 16, Pattern Grading (2)
FASHN 17, Apparel Production Manufacturing Techniques (3)
FASHN 19, Fashion Marketing (3)
FASHN 21, Digital Fashion Portfolio (2)
FASHN 88A, Independent Studies in Fashion (1)
FASHN 88B, Independent Studies in Fashion (2)
FASHN 88C, Independent Studies in Fashion (3)
FASHN 90A, Fashion Internship (1)
FASHN 90B, Fashion Internship (2)
FASHN 90C, Fashion Internship (3)

SUGGESTED COURSE SEQUENCE:**First Year Fall:**

- FASHN 1, Introduction to the Fashion Industry (3)
FASHN 2, Color Analysis (3)
Non-fashion elective (3)

First Year Spring:

- FASHN 3, Apparel Construction (3)
FASHN 5, Fashion Buying (3)
FASHN 7, Fabrics for Fashion Design and Merchandising (3)
FASHN 8, History of Fashion Design (3)

Second Year Fall:

- BUS 21, Merchandising Principles (3)
FASHN 18, Computer Aided Fashion Design and Merchandising (2)

Fashion elective (3)

FASHN 20, Fashion Styling and Visual Presentation (3)

Second Year Spring:

- BUS 23, Principles of Selling (3)
FASHN 12, Fashion Show Production (3)
Fashion elective (3)

Film Production

The program in Film Production prepares students through hands-on instruction for work in filmmaking/digital video production, which encompasses creative and logistical production, directing, editing, cinematography, and audio, as well as techniques for making specific types of films and/or videos, and the planning and management of film/video operations. All of the production classes infuse theory into and through the course products.

Programs Offered:

- Film Production Associate Degree
- Film Production Certificate of Achievement (30-33 units)

FILM PRODUCTION, ASSOCIATE DEGREE OR CERTIFICATE OF ACHIEVEMENT

Program Learning Outcomes: Upon completion of the program, students will produce film projects of high quality, congruent with films accepted into high-profile film festivals. Students will become proficient in the use of the latest technology, including High Definition (HD) and 4K formats. Students will gain significant exposure to the industry and film professionals and develop a network to support their career in film production.

Foundation Courses: (12 units)

FILM 1, Film Appreciation Introduction to Cinema (3)

or

FILM 2, History of Motion Pictures (3)

FILM 20, Beginning Scriptwriting (3)

FILM 30, Production Planning for Film and Video (3)

FILM 31, Introduction to Digital Filmmaking (3)

Film Production Courses: (6-9 units)

OPTION 1: *Students who completed courses listed below prior to fall 2014*

FILM 32, Advanced Digital Filmmaking (3)

FILM 33, Directing the Short Film (3)

OPTION 2: *Students who completed courses listed below fall 2014 or later*

FILM 32, Intermediate Digital Filmmaking (3)

and

FILM 32L, Intermediate Digital Filmmaking Lab (1)

and

FILM 33, Making the Short Film (3)

and

FILM 33L, Making the Short Film Lab (2)

or

FILM 34, Advanced Digital Filmmaking (3)

and

FILM 34L, Advanced Digital Filmmaking Lab (1)

Specialized Courses: (6 units)

DMPOST 3, Digital Video Fundamentals (3) (*formerly ET 31A*)

FILM 40, Cinematography (3)
FILM 50, Production Sound (3)

Elective Courses: (minimum 6 units)

AHIS 11, Art Appreciation Introduction to Global Visual Culture (3)
DMPOST 2, Digital Audio Fundamentals (3) (*formerly ET 40*)
DMPOST 30, Digital Video Editing (3) (*formerly ET 31B*)
DMPOST 60, Post-Production Studio (3) (*formerly ET 60*)
FILM 7, American Cinema Crossing Cultures (3)
FILM 21, Advanced Scriptwriting (3)

Film Studies

The Film Studies program introduces students to the history and development of cinema as an art, as an entertainment medium, as an object of philosophical study, and as a cultural and social phenomenon. The program examines film as a “text” which can be studied through diverse critical and theoretical perspectives. Students can enroll in a wide variety of courses in this area, including those in American and international film history, aesthetics and criticism, genre and gender studies, film in relation to society, literature into film, and cross-cultural film studies. Students can take courses in Film Studies to augment their liberal education through the acquisition of aesthetic and critical knowledge, or they may use their studies to gain entry into a wide variety of professions, including teaching, filmmaking, writing, archiving and preservation, advertising, film business and law, and production finance.

Programs Offered:

- Transfer Preparation
- Film Studies Associate Degree

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

The **University of California system has a transfer pathway** for any UC campus that offers Film and Media Studies. For more information, visit pathwaysguide.universityofcalifornia.edu

FILM STUDIES, ASSOCIATE DEGREE

Program Learning Outcomes: Upon completion of the program, students will be able to demonstrate critical thinking and aesthetic judgment skills, both verbally and in writing, in the analysis of film as an art form and entertainment medium, utilizing and applying the specialized vocabulary of film studies as it has developed in the academic con-

text and in the film industry. Students will also be able to identify and discuss the major historical developments, both artistic and technological, that have influenced the cinema throughout the 20th century, as well as the social, economic, and cultural factors that have shaped films from different gender and ethnic perspectives, and from domestic and international contexts.

Required Courses:

FILM 1, Film Appreciation: Introduction to Cinema (3)
FILM 2, History of the Motion Pictures (3)
FILM 5, Film and Society (3)

PLEASE NOTE: FILM 1 is intended as a beginning course to introduce students to film studies.

Elective Courses: (minimum of 12 units)

ANIM 5, History of Animation (3) (*formerly ET 61*)
FILM 6, Women in Film (3)
FILM 7, American Cinema: Crossing Cultures (3)
FILM 8, The Popular Film Genres (3)
FILM 9, The Great Film Makers (3)
FILM 10, Film Criticism and Interpretation (3)
FILM 11, Literature into Film (3) (*formerly same as ENGL 11*)
FILM 20, Beginning Scriptwriting (3)
FILM 21, Advanced Scriptwriting (3)
FILM 30, Production Planning for Film and Video (3)
FILM 31, Introduction to Digital Filmmaking (3)
FILM 40, Cinematography (3)

French

See *Modern Languages*

General Education

Students planning to transfer to a four-year college or university should complete the general education pattern for the specific transfer institution.

Programs Offered:

- Transfer Preparation
- CSU GE Certificate of Achievement (minimum of 39 units)
- IGETC Certificate of Achievement (minimum of 37 units)

TRANSFER PREPARATION

See “Transfer” section of the catalog

CSU GE, CERTIFICATE OF ACHIEVEMENT

See page 46 for CSU GE Requirements

To earn a CSU GE Certificate of Achievement, at least 50% of the units must be completed at any, or any combination of, California Community College(s). A minimum grade of C (2.0 on a 4.0 scale) is required for all other areas of the CSU GE pattern. The minimum overall GPA on the CSU GE pattern must be a C (2.0 on a 4.0 scale), and complete certification is required to receive a CSU GE Certificate of Achievement.

Students must meet all certification eligibility requirements to qualify for the Certificate of Achievement.

IGETC, CERTIFICATE OF ACHIEVEMENT

See page 41 for IGETC Requirements

To earn the IGETC Certificate of Achievement, at least 50% of the units must be completed at any, or any combination of, California Community College(s). A minimum grade of C (2.0 on a 4.0 scale) is required for each course applied to the IGETC Certificate of Achievement, and complete certification is required to receive an IGETC Certificate of Achievement.

Students must meet all certification eligibility requirements to qualify for the Certificate of Achievement.

General Science

See *Science*

Geographic Information Systems (GIS)

Programs Offered:

- Transfer Preparation
- Geospatial Technology Department Certificate (15 units)

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

CAREER OPPORTUNITIES

Over 80% of data used for decision-making in government, business, and industry has a spatial component (i.e. geospatial data). New areas of rapid growth are in criminal justice, homeland security, marketing, retail site location, resource allocation, banking, healthcare, planning, disease control, insurance, real estate, and disaster preparedness, management, and response. Most local, state, and federal government agencies use geospatial technologies and maintain a staff of GIS technicians, geospatial analysts, and GIS professionals. Geospatial technologies are also commonly used in the private sector by businesses, planners, architects, foresters, geologists, environmental scientists, archaeologists, real estate professionals, marketers, sociologists, and bankers. The expansion of jobs using geospatial technologies is anticipated to continue for many years to come.

DEPARTMENT CERTIFICATE REQUIREMENTS

A Department Certificate is granted upon successful completion of a program of study with a designated minimum number of units, including:

- Completion of the academic or career path with a grade of C or higher in each course, or with a P if the

course was taken on a Pass/No Pass basis, and the P is equal to a C or higher;

- Completion of at least 50% of academic or career path units at Santa Monica College. Department Chairs have the discretion to waive the 50% minimum units required at SMC to meet the major or area of emphasis. All major coursework must be completed with a “C” or better grade.

GEOSPATIAL TECHNOLOGY, DEPARTMENT CERTIFICATE

Geospatial technologies — including geographic information systems (GIS), remote sensing (RS), global positioning system (GPS), and digital cartography — are used to capture, store, manage, analyze, and visualize geospatial information related to locations on Earth’s surface. These technologies are used to combine various types of geospatial information in a digital environment, and are widely used in our daily life, government agencies, and in almost every industry. Through this program, students will develop an understanding of the theoretical underpinnings of geospatial technologies, and gain the skills needed to construct high-quality applications.

PLEASE NOTE: Students must petition the Earth Sciences department to obtain a Department Certificate in Geospatial Technology.

Program Learning Outcomes: Upon completion of the program, students will apply cartographic principles of scale, resolution, projection, and data management to solve a geographic problem using geospatial technologies. Students will demonstrate proficiency in spatial data collection and manipulation, spatial data management, spatial analysis, and spatial modeling using geospatial technologies. Students will also execute an original GIS project under the supervision of a faculty or professional mentor, and demonstrate the ability to communicate project outcomes orally, in writing, and graphically.

Required Courses:

- GEOG 20, Introduction to Geographic Information Systems (3) (*same as GIS 20*)
- GEOG 23, Intermediate Geographic Information System (3) (*same as GIS 23*)
- GEOG 25, Introduction to Cartography (3) (*same as GIS 25*)
- GEOG 26, Introduction to Remote Sensing (3) (*same as GIS 26*)
- GIS 27, Applications in Geographic Information Systems (3)

Geography

Geographers study the distribution of people in relation to land and other natural resources. They examine the distribution of land forms, study climate, soils, or vegetation, analyze resources such as water and minerals, or they may study political organizations, transportation systems, marketing systems, patterns of industrial development, housing, or public health. Additional careers include cartographer, demographer, geographic information specialist, hazardous waste planner, hydrologist, urban planner and environmental impact analyst.

Programs Offered:

- Transfer Preparation
- Geography Associate Degree for Transfer

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

SMC offers the **Geography Associate Degree for Transfer**. Students completing this degree are eligible for priority transfer admission consideration in the majors at many **California State University** campuses. In addition, students will be required to complete no more than 60 semester/90 quarter CSU units of coursework after transfer to complete the baccalaureate degree.

NOTE: Students considering transfer to a UC, private, or out-of-state school should consult a counselor BEFORE applying to transfer, as the transfer requirements may be different from those required for the Geography AA-T.

The most current list of CSU campuses accepting this Associate Degree for Transfer is available online at calstate.edu/transfer/adt-search/search.shtml

GEOGRAPHY, ASSOCIATE DEGREE FOR TRANSFER

The Associate in Arts in Geography for Transfer (AA-T) involves the understanding of the environment around us and interpretation of the patterns found across the Earth's surface. The course of study allows flexibility in course selection while providing a solid background in human, physical, and regional aspects of the discipline. The degree includes GIS, focusing on the use of geocomputation and digital technology to assess spatial and environmental problems and provide solutions. Throughout the degree, students will acquire and develop knowledge and skills that will equip them to be informed, engaged, and productive global citizens, capable of leading humanity toward a more sustainable and adaptable future.

Program Learning Outcomes: Upon completion of the program, students will demonstrate cartographic literacy, including map interpretation and, using spatial analysis skills, analyze, recognize, and evaluate spatial distributions on all scales from local to global, to become better global citizens. Students will also demonstrate the ability to identify spatial patterns and relationships between systems and cycles that affect life and shape landscapes.

Required Core Courses: (6 units)

GEOG 1, Physical Geography (3)

or

GEOG 5, Physical Geology with Lab (4)

GEOG 2, Introduction to Human Geography (3)

Group A: Select 2 courses from the following: (6 units)

GEOG 3, Weather and Climate (3)

GEOG 11, World Geography: Introduction to Global Studies (3) (*same as GLOBAL 11*)

GEOG 14, Geography of California (3)

GEOG 20, Introduction to Geographic Information Systems (3) (*same as GIS 20*)

Group B: Select 2 courses from the following: (6 units)

Any course(s) not used in Area A:

ANTHRO 1, Physical Anthropology (3)

or

ANTHRO 5, Physical Anthropology with Lab (4)

ANTHRO 2, Cultural Anthropology (3)

ANTHRO 3, World Archaeology (3)

BIOL 3, Fundamentals of Biology (4)

BOTANY 1, General Botany (4)

or

BOTANY 3, Field Botany (4)

CHEM 11, General Chemistry I (5)

CS 20B, Data Structures with Java (3)

CS 55, Java Programming (3)

ENGL 2, Critical Analysis and Intermediate Composition (3)

ENGL 31, Advanced Composition (3)

or

HIST 47, The Practice of History (3)

GEOG 7, Introduction to Environmental Studies (3) (*same as ENVRN 7*)

GEOG 8, Introduction to Urban Studies (3) (*same as URBAN 8*)

GEOG 10, Living in a Hazardous Environment (3)

GEOG 23, Intermediate Geographic Information Systems (3) (*same as GIS 23*)

GEOG 24, Geospatial Imagery: Maps for the Twenty-First Century (3)

GIS 19, Geographic Information Systems for Business (3)

GEOG 1, Physical Geology without Lab (3)

or

GEOG 4, Physical Geology with Lab (4)

MATH 2, Precalculus (5)

MATH 7, Calculus 1 (5)

MATH 8, Calculus 2 (5)

MATH 54, Elementary Statistics (4)

PHYSICS 8, Calculus-based General Physics 1 with Lab (4)

Geology

Geologists study the origin, history, composition, and structure of the earth, both for scientific knowledge and for practical purposes such as locating oil, minerals, and other raw materials; and for compiling architectural safety reports, maps, and diagrams. They use knowledge of chem-

istry, physics, math, and biology, to analyze the data and specimens. Some possible career choices are found in the environmental consulting industry, pollution remediation, public policy and environmental law. Career titles include meteorologist, oceanographer, seismologist, soil scientist, structural geologist and teacher.

Programs Offered:

- Transfer Preparation
- See also Science: General Science
- Career Opportunities

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

CAREER OPPORTUNITIES

Over 80% of data used for decision-making in government, business, and industry has a spatial component (i.e. geospatial data). New areas of rapid growth are in criminal justice, homeland security, marketing, retail site location, resource allocation, banking, healthcare, planning, disease control, insurance, real estate, and disaster preparedness, management, and response. Most local, state, and federal government agencies use geospatial technologies and maintain a staff of GIS technicians, geospatial analysts, and GIS professionals. Geospatial technologies are also commonly used in the private sector by businesses, planners, architects, foresters, geologists, environmental scientists, archaeologists, real estate professionals, marketers, sociologists, and bankers. The expansion of jobs using geospatial technologies is anticipated to continue for many years to come.

German

See *Modern Languages*

Global Studies

Global Studies is a multi- and interdisciplinary program designed to increase knowledge and understanding of the processes of globalization and their impacts on societies, cultures, and environments around the world. The Global Studies program provides the student with a knowledge of critical issues that affect their lives and community, as well as the affairs of other cultures, societies, and nations. An understanding of the world's social, political, economic, and natural systems and their increasing interdependence, along with an appreciation of the diversity of human culture, will supply the student with a strong background for working in

a global economy, for living in a multicultural society, and for making intelligent decisions as global citizens.

The goal of the program is to prepare students for further work in international studies and work affairs through the study of other cultures, world history, political and economic systems, world geography and environment, cross-cultural communication and conflict resolution, and modern languages. The Global Studies program is designed to encourage students to become "global thinkers." They learn how to relate their knowledge of a particular part of the world to the larger trends and issues that affect all societies: the transnational interactions of peoples, cultures, economies, and politics; the globalizing processes of the communication media; technological and environmental changes; law and human rights; the sometimes violent political, ethnic and religious responses to what is perceived as cultural and economic homogenization on a global scale; and the search for a just, sustainable and peaceful world.

Programs Offered:

- Transfer Preparation
- Global Studies Associate Degree
- Global Studies Certificate of Achievement (21 units)

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

GLOBAL STUDIES, ASSOCIATE DEGREE OR CERTIFICATE OF ACHIEVEMENT

Program Learning Outcome: Upon completion of the program, students will possess an increased understanding of the world's social, political, economic and natural systems and their increasing interdependence, as well as an appreciation of the diversity of human culture, which in turn will enable them to better work in the global economy, live in a multicultural society, and make intelligent decision as global citizens. Through the subject matter and activities presented in each course in the Global Studies program, students will be able to:

1. Analyze major global challenges from a multi- and interdisciplinary perspective;
2. Identify varying worldviews on the same issues, events, and occurrences;
3. Differentiate multiple perspectives on globalization and their effects on decision-making and behavior (and the individual, community, and national levels);
4. Explain how/why the environmental well-being of the world demands personal and collective responsibility at both the local and global levels;

5. Describe core civic/citizenship values which generate socially responsible behavior at both local and global levels;
6. Explain the interconnectedness of global decisions and events; and
7. Analyze the interdependence among people, groups, societies, governments, and nations in finding solutions to current global problems and conflicts.

Required Core Courses: (9 units)

- GLOBAL 5, International Political Economy: Introduction to Global Studies (3) (*same as ECON 5 and POL SC 5*)
- GLOBAL 10, Global Issues (3)
- GLOBAL 11, World Geography: Introduction to Global Studies (3) (*same as GEOG 11*)

Culture and Society: (3 units)

- ANTHRO 2, Cultural Anthropology (3)
- ANTHRO 3, World Archaeology (3)
- ANTHRO 7, Introduction to Linguistic Anthropology (3)
- ANTHRO 14, Sex, Gender, and Culture (3)
- ANTHRO 19, The Culture of Food (3)
- ANTHRO 21, Peoples and Power in Latin America (3)
- ASTRON 6, Archeoastronomy (3)
- COM ST 37, Intercultural Communication (3)
- FASHN 15, Ethnic Fashion (3)
- GEOG 2, Introduction to Human Geography (3)
- GEOG 7, Introduction to Environmental Studies (*same as ENVRN 7*)
- GEOG 8, Introduction to Urban Studies (3) (*same as URBAN 8*)
- LING 1, Introduction to Linguistics (3)
- MEDIA 3, Global Media (3) (*same as GLOBAL 3*)
- PHILOS 20, Environmental Ethics (*same as ENVRN 20*)
- POL SC 22, Environmental Politics and Policies (3) (*same as ENVRN 22*)
- PSYCH 40, Environmental Psychology (3) (*same as ENVRN 40*)
- SOCIOL 1, Introduction to Sociology (3)
- SOCIOL 1s, Introduction to Sociology – Service Learning (3)
- WGS 20, Gender, Feminisms, and Social Movements: A Global Approach (3) (*formerly WOM ST 20*)

Governance and Conflict: (3 units)

- PHILOS 48, Nonviolent Resistance (3)
- POL SC 2, Comparative Government and Politics (3)
- POL SC 3, Introduction to Politics: Justice, Power and Agency (3)
- POL SC 7, International Politics (3)
- POL SC 11, World Affairs and the United Nations (3)
- POL SC 47, International Politics Seminar (3)
- PHILOS 51, Political Philosophy (3) (*same as POL SC 51*)
- PHILOS 52, Modern Political Thought (3) (*same as POL SC 52*)

Markets and Economies: (3 units)

- BUS 50, Introduction to International Business (3)
- BUS 52, International Marketing (3)
- BUS 53, Importing and Exporting (3)
- BUS 54, International Management (3)
- BUS 55, Southern California's International Connections and Blue/Ocean Economy (3)
- ECON 1, Principles of Microeconomics (3)
- ECON 2, Principles of Macroeconomics (3)

World History/Area Studies: Select at least 3 units from the following:

- AHIS 3, Global Art History Since 1860 (3)
- AHIS 5, Latin American Art History 1 (3)
- AHIS 6, Latin American Art History 2 (3)
- AHIS 11, Art Appreciation: Introduction to Global Visual Culture (3)
- AHIS 15, Mexican Art History (3)
- AHIS 17, Arts of Asia (3)
- AHIS 18, Introduction to African Art History (3)
- AHIS 22, Architectural History and Theory – 1850 to Present (3)
- DANCE 5, Dance History (3)
- DANCE 20, World Dance Survey (2)
- DANCE 21A, Beginning Asian Pacific Dance (2) (*formerly DANCE 21*)
- DANCE 23, Intermediate Mexican Dance (2)
- DANCE 24, Flamenco Dance 1 (2)
- DANCE 25, African Dance (2)
- DANCE 27, Brazilian Dance (2)
- DANCE 29, Middle Eastern/North African Dance (2)
- ENGL 32, History and Literature of Contemporary Africa (3) (*formerly same as HIST 30*)
- ENGL 40, Asian Literature (3)
- ENGL 45, Asian Film, Literature, and Society (3)
- ENGL 49, Asian Mythology (3)
- ENGL 56, 20th Century European Literature (3)
- ENGL 58, Literature of Mexico (3)
- ENVRN 32, Global Environmental History (3) (*same as HIST 32*)
- HIST 2, History of Western Civilization II (3)
- HIST 4, British Civilization II (3)
- HIST 6, History of Latin America 2 (3)
- HIST 19, History of Mexico (3)
- HIST 21, History of Russia (3)
- HIST 22, History of the Middle East (3)
- HIST 25, History of East Asia Since 1600 (3)
- HIST 27, History of Southeast Asia (3)
- HIST 28, Modern Europe: 1914 to the Present (3)
- HIST 29, Jewish History (3)
- HIST 32, Global Environmental History (3) (*same as ENVRN 32*)
- HIST 34, World Civilizations II (3)
- HIST 39, African History II (3)
- HIST 41, Native-American History (3)
- HIST 53, The History of Religion (3)
- HUM 9A, South Asia: Culture and Civilization (3)
- HUM 28s, Contemporary Life in China (2)
- JAPAN 9, Japan: Culture and Civilization (3)
- MUSIC 29, A World of Music (3)
- MUSIC 31, Music History II (3)
- PHILOS 4, Modern Philosophers (3)
- PHILOS 22, Asian Philosophy (3)
- PHILOS 23, Philosophy of Religion (3)
- POL SC 14, Middle East Government and Politics (3)
- SPAN 20, Latin American Civilization (3)

Foreign Language Requirement (same as IGETC Area 6)

The Foreign Language requirement can be met by completion of the IGETC Area 6A. For detailed information, see the IGETC information on page 43.

Graphic Design

Graphic designers produce ideas and experiences with visual and textural content. The form of the communication can be physical or screen-based, and many include images, words, or graphic forms. The work can be logotypes, stationery, brochures, advertising, packaging, motion graphics, websites, and many other types of projects.

Programs Offered:

- Transfer Preparation
- Graphic Design Associate Degree
- Graphic Design Certificate of Achievement (40 units)
- See also Interaction Design

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

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GRAPHIC DESIGN, ASSOCIATE DEGREE OR CERTIFICATE OF ACHIEVEMENT

Program Learning Outcomes: Upon completion of the program, students will be able to solve a variety of communication problems utilizing imagery and typography, and will possess basic graphic design skills, a working knowledge of current technology, and have the ability to work successfully as an entry-level graphic designer.

Required Courses: (28 units)

- GR DES 31, Graphic Design Studio 1 (2)
- GR DES 33, Typography Design 1 (2)
- GR DES 35, Sketching for Graphic Design (2)
- GR DES 41, Graphic Design Studio 2 (2)
- GR DES 43, Typography Design 2 (2)
- GR DES 50, Graphic Design Portfolio and Professional Practices (2)
- GR DES 60, Design Research (2)
- GR DES 61, User Experience Design 1 (3)
- GR DES 64, Digital Imaging for Design (3) (*formerly same as ET 37*)
- GR DES 65, Web Design 1 (2)
- GR DES 66, Web Design 2 (3) (*formerly ET 16*)
- GR DES 71, Motion Graphics 1 (3) (*formerly ET 58*)

Required Concentration: Select 1 of the following 2 areas of concentration:

Print and Illustration Concentration: (12 units)

- GR DES 34, Publication and Page Design I (3)
- GR DES 38, Digital Illustration I (4)
- GR DES 44, Publication and Page Design 2 (3)
- GR DES 51, Graphic Design Studio 3 (2)

User Experience Concentration: (12 units)

- GR DES 62, User Experience Design 2 (3)
- GR DES 67, Web Design 3 (3)

GR DES 75, Mobile Design 1 (3)

GR DES 81, Industry Project (3)

Additional Recommended Courses:

- CIS 50, Internet, HTML, and Web Design (3)
- CIS 51, HTML5, CSS3, and Accessibility (3)
- CIS 54, Web Development and Scripting I (3)
- CIS 67, WordPress (3)
- GR DES 34, Publication and Page Design I (3)
- GR DES 38, Digital Illustration 1 (4)
- GR DES 44, Publication and Design 2 (3)
- GR DES 51, Graphic Design Studio 3 (2)
- GR DES 54, Digital Illustration 2 (3)
- GR DES 62, User Experience Design 2 (3)
- GR DES 67, Web Design 3 (3)
- GR DES 71B, Motion Graphics 2 (3) (*formerly ET 59*)
- GR DES 75, Mobile Design 1 (3)
- GR DES 76, Mobile Design 2 (3)
- GR DES 90A, Graphic Design Internship (1)
- GR DES 90B, Graphic Design Internship (2)
- GR DES 90C, Graphic Design Internship (3)
- PHOTO 1, Introduction to Photography (3)

Health Education

See *Kinesiology/Physical Education*

See *Nursing*

See *Occupational Therapy*

See *Respiratory Care*

Health Education - Noncredit

Programs Offered:

- Introduction to Working with Older Adults Certificate of Completion (Noncredit)
- Rehabilitation Therapy Aide Certificate of Completion (Noncredit)

INTRODUCTION TO WORKING WITH OLDER ADULTS, CERTIFICATE OF COMPLETION (NONCREDIT)

This noncredit program prepares students for entry-level careers working with older adults in the field of Gerontology. Students completing the Introduction to Working with Older Adults Certificate of Completion may qualify for entry into high demand occupations such as caregivers, companions, resident care providers, direct support professionals, and other services for the elderly and persons with disabilities. This program meets the requirements for the State of California Senior Caregiver Training. This program is not intended as a substitute for any credit certificate or associate degree.

Program Learning Outcomes: Upon completion of the program, students will demonstrate competency in providing non-medical care to older adults; discuss the physiological, psychological and sociological changes associated with aging; apply effective communication skills and processes in relating to older adults with dementia or disabilities; and articulate how healthy behaviors and lifestyle choices lead to wellness in older adults.

Required Courses:

- HEALTH 905, Providing Care to Older Adults (0)

HEALTH 906, Communication with Older Adults (0)
HEALTH 907, Wellness in Older Adults (0)

REHABILITATION THERAPY AIDE, CERTIFICATE OF COMPLETION (NONCREDIT)

The Certificate of Completion introduces students to the field and practice of rehabilitation therapy, including occupational, physical and speech therapy. Students learn the essential job duties and responsibilities of a rehabilitation aide, and experience clinical hands-on practice with the equipment, machines and tools. The students explore the history, ethics and common muscular anatomy, diagnoses and associated precautions, and body mechanic and movement terms used in these health care fields.

Program Learning Outcomes: Upon completion of this program, students will be able to:

1. Differentiate among the varying roles of a rehabilitation aide, assistant and therapist;
2. Demonstrate competency in basic medical office ethics and common practices;
3. Give examples of diagnoses, injuries and disabilities, and their associated precautions, commonly encountered in a rehabilitation therapy setting;
4. Use common rehabilitation therapy terminology;
5. Identify and locate some of the major muscle groups of the human body;
6. Recognize proper muscle movement and body mechanics along the various planes of the body;
7. Lift, maintain and clean equipment, machines and tools commonly used in rehabilitation therapy settings;
8. Recognize some modalities used in rehabilitation settings and distinguish an aide's role in helping patients with those modalities; and
9. Learn and become CPR, AED, and First Aid certified in accordance with the American Red Cross guidelines.

Required Courses:

HEALTH 900 Introduction to the Career of a Rehabilitation Therapy Aide (0)
HEALTH 902 Clinical Practice for a Rehabilitation Therapy Aide (0)
HEALTH 904 Kinesiology for a Rehabilitation Therapy Aide (0)

Hebrew

See *Modern Languages*

History

Historians study, assess, and interpret the past to determine what happened and why. They examine court documents, diaries, letters, and newspaper accounts; they conduct research, write, teach, evaluate and make recommendations. Schools, universities, libraries, museums, government offices, and private enterprise are some of the job settings for history majors. Some related career titles include archivist, biographer, congressional aide, Foreign Service officer, FBI/CIA agent, lobbyist, and genealogist agent.

Programs Offered:

- Transfer Preparation
- History Associate Degree for Transfer
- See also Liberal Arts – Social and Behavioral Sciences

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

The **University of California system has a transfer pathway** for any UC campus that offers History. For more information, visit pathwaysguide.universityofcalifornia.edu

SMC offers the **History Associate Degree for Transfer**. Students completing this degree are eligible for priority transfer admission consideration in the majors at many **California State University** campuses. In addition, students will be required to complete no more than 60 semester/90 quarter CSU units of coursework after transfer to complete the baccalaureate degree.

NOTE: Students considering transfer to a UC, private, or out-of-state school should consult a counselor BEFORE applying to transfer, as the transfer requirements may be different from those required for the History AA-T.

The most current list of CSU campuses accepting this Associate Degree for Transfer is available online at calstate.edu/transfer/ad-search/search.shtml

HISTORY, ASSOCIATE DEGREE FOR TRANSFER

The Associate in Arts in History for Transfer (AA-T) involves the critical examination of historical material, including primary sources, attending to such concepts as historical agency, context, perspective, and multi-causation. Through the course of study students gain an understanding of history as a discipline characterized by the application of critical analysis to factual evidence. The courses address the value of historical study for understanding change and continuity over time.

Upon completion of the Associate in Arts in History for Transfer (AA-T), students will have a strong academic foundation in the field and be prepared for upper-division baccalaureate study. Completion of the degree indicates that the student will have satisfied the lower-division requirements for transfer into history or similar majors for many campuses in the California State University system.

Program Learning Outcomes: Upon completion of the program, students will demonstrate, through written and oral academic work, critical examination of historical material, including primary sources, attending to such concepts as historical agency, context, perspective, and multi-causation. Students will further demonstrate an understanding of history as a discipline characterized by the application of critical analysis to factual evidence.

Required Core US History Courses: (6 units)

HIST 11, History of the United States Through Reconstruction (3)

HIST 12, The United States History Since Reconstruction (3)

World History Courses; Select 1 pair of courses from the following: (6 units)

HIST 1, History of Western Civilization I (3)

or

HIST 33, World Civilizations I (3)

HIST 2, History of Western Civilization II (3)

or

HIST 34, World Civilizations II (3)

AREA 1: Select 1 course from the following: (3 units)

AHIS 15, 17, 18, 71, 72; ANTHRO 20, 21; ARABIC 1; ASL 1, 2; CHNESE 1, 2, 3, 4, 9; COM ST 14, 37; DANCE 2; ECE 11; ECON 5 (*same as GLOBAL 5 and POL SC 5*); ENGL 9, 10, 32, 39, 40, 41, 45, 53, 54, 57, 58; ENVRN 32 (*same as HIST 32*); FILM 6, 7; FRENCH 1, 2, 3, 4; GEOG 11 (*same as GLOBAL 11*), 14; GERMAN 1, 2, 3, 4; GLOBAL 5 (*same as ECON 5 and POL SC 5*), 11 (*same as GEOG 11*); HEBREW 1, 2, 8; HIST 5, 6, 10, 16, 19, 21, 22, 24, 25, 26, 29, 32, 33 (*if not used above*), 34 (*if not used above*), 38, 39, 41, 42, 43, 53, 62; ITAL 1, 2, 3; JAPAN 1, 2, 3, 4; KOREAN 1, 2, 3, 4; MEDIA 10; MUSIC 37; NUTR 7; PERSIN 1, 2; PHILOS 22, 23; POL SC 5 (*same as ECON 5 and GLOBAL 5*), 7, 8, 11, 14, 21; RUSS 1, 2; SOCIOL 30, 31, 32, 34; SPAN 1, 2, 3, 4, 9, 11, 12, 20; TURK 1; WGS 10, 20, 30

AREA 2: Select 1 course not already completed above: (3 units)

AHIS 1, 2, 3, 21, 22, 52 (*same as PHOTO 52*); ANTHRO 2, 3, 7, 19; ECON 1, 2, 5 (*same as GLOBAL 5 and POL SC 5*), 15 (*same as HIST 15*); ENVRN 7 (*same as GEOG 7*), 14 (*same as HIST 14*), 32 (*same as HIST 32*); GEOG 2, 7 (*same as ENVRN 7*), 8 (*same as URBAN 8*), 11 (*same as GLOBAL 11*); GLOBAL 5 (*same as ECON 5 and POL SC 5*), 10, 11 (*same as GEOG 11*); HIST 1 (*if not used above*), 2 (*if not used above*), 3, 4, 5, 6, 10, 13, 14 (*same as ENVRN 14*), 15 (*same as ECON 15*), 16, 19, 20, 21, 22, 24, 25, 26, 27, 28, 29, 32 (*same as ENVRN 32*) (*if not used above*), 34 (*if not used above*), 38, 39, 41, 42, 43, 47, 52, 53, 55, 62; MEDIA 1, 10; MUSIC 33, 36; NUTR 7; PHILOS 48 (*formerly same as HIST 48*); PHOTO 52 (*same as AHIS 52*); POL SC 1, 3 5 (*same as ECON 5 and GLOBAL 5*); PSYCH 1; SOCIOL 1, 1s, 2, 2s; URBAN 8 (*same as GEOG 8*); WGS 10 (*formerly WOM ST 10*)

Interaction Design (IxD)

Interaction Design blends the fields of design and technology, with a focus on ensuring that products are appealing, effective, and intuitive for their users. Interaction designers work closely with programmers to create smart objects and systems that optimize the user experience. There is strong demand for more interaction designers in today's high-technology industries.

Selected to participate in the pilot California Community College Baccalaureate degree program, Santa Monica College now offers courses that meet the requirements for its new Bachelor of Science (BS) degree in the field of Interaction Design. This degree will provide students with the skills necessary to enter this well-paying and exciting field. Students interested in the Bachelor of Science degree

in Interaction Design should visit smcixd.org for more information and to sign up for email updates about the program.

Program Offered:

- Interaction Design Bachelor Degree
- See also Graphic Design

INTERACTION DESIGN, BACHELOR OF SCIENCE DEGREE

The Interaction Design Bachelor of Science degree program blends the fields of design, user experience (UX), and technology. The proliferation of innovations — from mobile apps, medical devices, and wearable technology, to connected appliances and self-driving cars — is creating strong demand for a new breed of designer who understands the user and employs a user-centered approach. The success of a new product or service in the competitive, fast-paced world of high technology hinges upon the quality of the user's first experience with the product. Interaction Designers ensure that products and services are appealing, effective, and intuitive for their users by designing the behavior, organization, and aesthetics of the system to create successful end-to-end experiences. *This is a four-year program with the lower-division Graphic Design courses providing students with the skills necessary to enter the upper-division courses in this field.*

PILOT PROGRAM STATUS: Santa Monica College is a participant in the California Community College Bachelor Degree Pilot Program. This program was created by the state legislature (Senate Bill 850) as a pilot program currently scheduled to expire in June of 2023. *Students participating in the baccalaureate degree pilot program must complete their degrees by the end of the 2022–23 academic year.*

Program Learning Outcomes: Upon completion of the program, students will demonstrate knowledge of Interaction Design/User Experience Design history, practices, methodologies, tools, and project-based processes in designing for the user. Graduates will utilize human-centered design principles, user-testing outcomes, and ethnographic research insights, and will employ critical thinking, sketching, and iterative processes to define, develop, conceptualize, and solve problems. They will design and prototype correct affordances, interaction paradigms, and patterns for a range of platforms including web, mobile, and tangible systems. They will also collaborate effectively with customers and clients, and in team projects, brainstorming sessions, and in-class critiques. They will exhibit proficient visual, verbal, and written communication skills, particularly presentation skills necessary in the design industry.

Lower-Division Preparation for the IxD Program. (These courses, or equivalent, are required prior to enrollment in the IxD courses. SMC has several articulation agreements with other institutions for these courses. Details available at smc.edu/IDTransferAgreements.)

- GR DES 31, Graphic Design Studio 1 (2)
- GR DES 33, Typography Design 1 (2)
- GR DES 35, Sketching for Graphic Design (2)
- GR DES 41, Graphic Design Studio 2 (2)
- GR DES 43, Typography Design 2 (2)
- GR DES 50, Graphic Design Portfolio and Professional Practices (2)
- GR DES 60, Design Research (2)
- GR DES 61, User Experience Design 1 (3)

GR DES 62, User Experience Design 2 (3)
 GR DES 64, Digital Imaging for Design I (3)
 GR DES 65, Web Design 1 (2)
 GR DES 66, Web Design 2 (3)
 GR DES 67, Web Design 3 (3)
 GR DES 71, Motion Graphics 1 (3)
 GR DES 75, Mobile Design 1 (3)
 GR DES 76, Mobile Design 2 (3)

Required Lower-Division Courses (25 units):

AHIS 3, Global Art History Since 1860 (3)

or

AHIS (any AHIS course satisfies requirement; AHIS 3 highly recommended) (3)

BUS 20, Principles of Marketing (3)

or

BUS 63, Principles of Entrepreneurship (3)

COM ST 16, Fundamentals of Small Group Discussion (3) (if taken fall 2016 or prior)

or

MEDIA 4, Introduction to Game Studies (3)

CIS 54, Web Development and Scripting (3)

or

CIS 87A Python Programming (3)

or

CS 7 Programming for Non-Computer Science Majors (3)

ENGL 1, Reading and Composition 1 (3)

ENGL 2, Critical Analysis and Intermediate Composition (3)

MATH 54, Elementary Statistics (4)

PSYCH 1, General Psychology (3)

Upper-Division Major Requirements (31 units):

IXD 310, Interaction Design Studio 1 (3)

IXD 330, Interaction Design Studio 2 (3)

IXD 350, Interactive Storytelling (3)

IXD 360, Product Design (3)

IXD 370, Design for Community Change (3)

IXD 410, Project Management for Design (2)

IXD 430, Interaction Design Studio 3 (3)

IXD 450, Interaction Design Portfolio (2)

IXD 460, Tangible Interaction (3)

IXD 470, Interaction Design Senior Studio (3)

IXD 480, Design for the Future (3)

Upper-Division General Education (9 units):

COM ST 310, Organizational and Small Group Communication (3)

ENGL 300, Advanced Writing and Critical Thinking in the Disciplines (3)

PSYCH 320, Cognitive Psychology (3)

Optional Internship or Independent Study

GR DES 90A, Internship (1)

GR DES 90B, Internship (2)

GR DES 90C, Internship (3)

IXD 481, Independent Studies in Interaction Design (1)

IXD 482, Independent Studies in Interaction Design (2)

IXD 483, Independent Studies in Interaction Design (3)

Interior Architectural Design

This program provides a thorough and analytical foundation of the Interior Architectural Design field that will enable students to practice professionally and serve their community with safe, functional, and sustainable interior spaces. Innovative design, critical analysis, and communication skills are developed in drawing, writing, modeling, and collaboration. Students completing the AS degree may apply for transfer to a University program in Interior Architecture or Environmental Design or obtain an entry level position in the same fields.

Note: in addition to meeting academic requirements for admittance into a university, Interior Architectural Design Programs also require prospective students to submit a portfolio to review for admittance into the program. It is recommended that students make an appointment with counselors at the institution of their choice to inquire about requirements.

For additional career possibilities, visit the Career Services Center on the main campus to utilize computerized career information systems and other valuable career resources.

See the Interior Architectural Design Program website (smc.edu/iarc) for additional information.

Programs Offered:

- Transfer Preparation
- Interior Architectural Design Associate Degree
- Interior Architectural Design Certificate of Achievement (40 units)
- Interior Architectural Design Fundamentals Certificate of Achievement (18 units)

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

INTERIOR ARCHITECTURAL DESIGN, ASSOCIATE DEGREE OR CERTIFICATE OF ACHIEVEMENT

Program Learning Outcomes: Upon completion of the program, students will demonstrate the ability to research and analyze critical concepts of design and human interaction within the built environment, understand Interior designer's role in society, develop environmentally responsible designs, and communicate design concepts through drawing, writing, modeling, and collaboration. Students will develop a portfolio of work displaying design and techni-

cal skills to apply as an entry level Interior architectural designer or drafter, or to transfer to a university.

Required Core Courses: (40 units)

AHIS 21, Architectural History: Ancient to 1850 (3)
 AHIS 22, Architectural History and Theory – 1850 to Present (3)
 ARC 10, Studio 1 (3) (formerly INTARC 34B)
 ARC 11, Design Communication 1 (3) (formerly INTARC 28B/INTARC 29)

 ARC 20, Studio 2: Architecture (3)

or

IARC 20, Studio 2: Interior Architecture (3)
 (formerly INTARC 31)

 ARC 21, Design Communication 2 (3) (formerly INTARC 28A/INTARC 35)

ARC 31, Design Communication 3 (3) (formerly INTARC 38)

ARC 70, Portfolio (1)

IARC 15, 2D Color Theory (3) (formerly INTARC 34)

IARC 25, Materials and Products for Interior Architectural Design (3) (formerly INTARC 36)

IARC 30, Studio 3: Interior Architecture (3) (formerly INTARC 40)

IARC 35, Fundamentals of Lighting (3) (formerly INTARC 44)

IARC 40, Studio 4: Interior Architecture (3) (formerly INTARC 45)

IARC 45, Building Systems and Codes (3) (formerly INTARC 50)

INTERIOR ARCHITECTURAL DESIGN FUNDAMENTALS, CERTIFICATE OF ACHIEVEMENT

This program provides a series of foundation courses in Architecture and Interior Architectural Design. Students will gain a broad overview and acquire fundamental skills needed in the design profession. This would be the first of two tier stackable certificate program specializing in Interiors or Architectural Design.

Program Learning Outcomes: Upon completion of the program, students will gain a broad overview and acquire fundamental skills needed in the Interior and Architectural design profession.

Required Courses: (18 units)

ARC 10, Studio 1 (3) (formerly INTARC 34B)
 ARC 11, Design Communication 1 (3) (formerly INTARC 28B/INTARC 29)

 ARC 20, Studio 2: Architecture (3)

or

IARC 20, Studio 2: Interior Architecture (3) (formerly INTARC 31)

 ARC 21, Design Communication 2 (3) (formerly INTARC 28A/INTARC 35)

IARC 15, 2D Color Theory (3) (formerly INTARC 34)

IARC 25, Materials and Products for Interior Architectural Design (3) (formerly INTARC 36)

Transfer and program requirements are subject to change. For the most up-to-date information regarding transfer preparation visit assist.org and regarding degree and certificate requirements visit smc.edu/articulation.

Italian

See Modern Languages

Japanese

See Modern Languages

Journalism

This program teaches students the methods and techniques for gathering, processing and delivering news, and prepares students to be professional print and multimedia journalists. Included is instruction in news writing and editing, reporting and multimedia story production, professional standards and ethics, and journalism history and research. Careers in this field include book editor, copywriter, film critic, foreign correspondent, freelance writing, online editor, multimedia story producer, journalist, magazine editor, news anchor, newspaper editor, publicist, sportswriter, and technical writer.

Programs Offered:

- Transfer Preparation
- Journalism Associate Degree for Transfer
Students may satisfy the requirements of this degree with approved courses (which may be fewer units) taken at other California Community Colleges. The courses listed below are SMC courses. If completed entirely at SMC, the academic path requires 19 units.
- Journalism – Multimedia Storytelling Associate Degree
- See also Communication Studies
- See also Media Studies

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

SMC offers the **Journalism Associate Degree for Transfer**. Students completing this degree are eligible for priority transfer admission consideration in the majors at many **California State University** campuses. In addition, students will be required to complete no more than 60 semester/90 quarter CSU units of coursework after transfer to complete the baccalaureate degree.

NOTE: Students considering transfer to a UC, private, or out-of-state school should consult a counselor BEFORE applying to transfer, as the transfer requirements may be different from those required for the Journalism AA-T.

The most current list of CSU campuses accepting this Associate Degree for Transfer is available online at calstate.edu/transfer/ad-search/search.shtml

JOURNALISM, ASSOCIATE DEGREE FOR TRANSFER

The Associate in Arts in Journalism for Transfer (AA-T) involves the methods and techniques for gathering, processing, and delivering news, and prepares students to be professional print and multimedia journalists. Included is instruction in news writing and editing, reporting and multimedia story production, professional standards and ethics, and journalism history and research. Careers in this field include book editor, copywriter, film critic, foreign correspondent, freelance writer, online editor, multimedia story producer, journalist, magazine editor, news anchor, newspaper editor, publicist, sportswriter, and technical writer.

Upon completion of the Associate in Arts in Journalism for Transfer (AA-T), students will have a strong academic foundation in the field and be prepared for upper-division baccalaureate study. Completion of the degree indicates that the student will have satisfied the lower-division requirements for transfer into journalism or similar majors for many campuses in the California State University system.

Program Learning Outcomes: Upon completion of the program, students will be able to produce essential nonfiction storytelling techniques in print and multimedia formats, demonstrate the ability to work as a team member to collaborate on media production across several formats, and demonstrate an understanding of the ethical and legal issues affecting journalists.

Required Core Courses: (9 units minimum)

- JOURN 1, The News (3)
- JOURN 16, Producing the Campus Newspaper (4)
- MEDIA 1, Survey of Mass Media Communications (3)

LIST A: Select 1 course from the following: (3 units required)

- JOURN 2, Intermediate Newswriting and Reporting (3)
- JOURN 15, Introduction to Multimedia Storytelling (3)
- JOURN 17, Editing the Campus Newspaper (2)
- JOURN 21, News Photography (3) (*same as PHOTO 13*)
- JOURN 43, Public Relations and Publicity (3) (*same as BUS 29*)

LIST B: Select 2 courses; each course must come from a different group: (6 units minimum)

GROUP 1

Any course from List A not used above.

GROUP 2

- BUS 32, Business Communications (3)
- COM ST 11, Elements of Public Speaking (3)
- COM ST 12, Persuasion (3)
- COM ST 16, Fundamentals of Small Group Discussion (3)
- COM ST 21, Argumentation (3)
- ENGL 1, Reading and Composition 1 (3)
- ENGL 2, Critical Analysis and Intermediate Composition (3)
- ENGL 31, Advanced Composition (3)
- HIST 47, The Practice of History (3)
- PHILOS 7, Logic and Critical Thinking (3)

GROUP 3

- MATH 2, Precalculus (5)
- MATH 21, Finite Mathematics (3)

MATH 26, Functions and Modeling for Business and Social Science (3)

MATH 54, Elementary Statistics (4)

or

any math course for which these are a prerequisite

GROUP 4

PHOTO 1, Introduction to Photography (3)

JOURNALISM – MULTIMEDIA STORYTELLING, ASSOCIATE DEGREE

This program teaches students the methods and techniques for gathering, processing, and delivering news, and prepares students to be professional print and multimedia journalists. Included is instruction in news writing and editing, reporting and multimedia story production, professional standards and ethics, and journalism history and research. Careers in this field include book editor, copywriter, film critic, foreign correspondent, freelance writer, online editor, multimedia story producer, journalist, magazine editor, news anchor, newspaper editor, publicist, sportswriter, and technical writer.

Program Learning Outcomes: Upon completion of the program, students will be able to produce essential nonfiction storytelling techniques in print and multimedia formats, demonstrate the ability to work as a team member to collaborate on media production across several formats, and demonstrate an understanding of the ethical and legal issues affecting journalists.

Required Courses: (10 units)

- JOURN 1, The News (3)
- JOURN 15, Introduction to Multimedia Storytelling (3)
- JOURN 16, Producing the Campus Newspaper (4)

Elective Courses: Select at least 1 course from each group: (9 units)

GROUP A

- CIS 50, Internet, HTML, and Web Design (3)
- CIS 56, Web Media Production (3)
- CIS 59A, Dreamweaver I (3)
- CIS 60A, Photoshop I (3)
- DMPOST 3, Digital Video Fundamentals (3) (*formerly ET 31A*)
- GR DES 31, Graphic Design Studio 1 (2)
- GR DES 34, Publication and Page Design I (3)
- GR DES 64, Digital Imaging for Design (3) (*formerly ET 37*)
- GR DES 65, Web Design 1 (2)
- JOURN 4A, Newscasting and Newswriting (3) (*same as MEDIA 14*)
- JOURN 7, Engaging Audiences for Journalism and Social Media (4) (*same as MEDIA 25*)
- JOURN 8, Writing to Sell (3)
- JOURN 17, Editing the Campus Newspaper (2)
- JOURN 21, News Photography (3) (*same as PHOTO 13*)
- JOURN 22, Photography for Publication (3) (*same as PHOTO 14*)
- JOURN 43, Public Relations and Publicity (3) (*same as BUS 29*)
- JOURN 90B, Journalism Internship (2)
- PHOTO 29, Video Production for Still Photographers (3)

GROUP B

- MEDIA 1, Survey of Mass Media Communications (3)
- MEDIA 10, Journalism, Gender and Race (3)
- MEDIA 11, Introduction to Broadcasting

Kinesiology/Physical Education

Kinesiology — a rapidly expanding field in the fitness and healthcare arena — is the study of human development, anatomy, physiology, mechanics, and motor learning. Within each kinesiology subdiscipline, students learn about stressors — both positive and negative — that govern human performance. Class discussions focus on numerous clinical conditions, and the exercise, nutritional, and medical techniques that can be used to prevent and control these problems.

Most career options in kinesiology require additional education, four-year or graduate degrees, and certification by specified agencies. SMC's kinesiology courses prepare students for advanced studies in kinesiology, physical therapy, exercise physiology, sports medicine, and other related life sciences programs.

Programs Offered:

- Transfer Preparation
- Kinesiology Associate Degree for Transfer (20 units)
Students may satisfy the requirements of this degree with approved courses (which may be fewer units) taken at other California Community Colleges. The courses listed below are SMC courses. If completed entirely at SMC, the academic path requires 21 units.
- Athletic Coaching Associate Degree
- Athletic Coaching Certificate of Achievement (24 units)

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

SMC offers the **Kinesiology Associate Degree for Transfer**. Students completing this degree are eligible for priority transfer admission consideration in the majors at many **California State University** campuses. In addition, students will be required to complete no more than 60 semester/90 quarter CSU units of coursework after transfer to complete the baccalaureate degree.

NOTE: Students considering transfer to a UC, private, or out-of-state school should consult a counselor BEFORE applying to transfer, as the transfer requirements may be different from those required for the Kinesiology AA-T.

The most current list of CSU campuses accepting this Associate Degree for Transfer is available online at calstate.edu/transfer/adt-search/search.shtml

KINESIOLOGY, ASSOCIATE DEGREE FOR TRANSFER

The Associate in Arts in Kinesiology for Transfer (AA-T) involves the study of human development, anatomy, physiology, mechanics, and motor learning. Within each subdiscipline, students study stressors — both positive and negative — that govern human performance. In addition, discussions focus on exercise, nutrition, and techniques used to achieve health and wellness. Students develop and integrate the concepts and principles from each subdiscipline to understand the complexity of the human body.

Upon completion of the Associate in Arts in Kinesiology for Transfer (AA-T), students will have a strong academic foundation in the field and be prepared for upper-division baccalaureate study. Students who have completed the Associate in Arts for Transfer in Kinesiology will have satisfied the lower-division requirements for transfer into Kinesiology or a similar major for many campuses in the California State University system.

Program Learning Outcomes: Upon completion of the program, students will demonstrate skills in anatomy, physiology, kinesiology, and motor learning, as well as an appreciation of the complexity of the human body as it relates to exercise, nutrition, and techniques used to achieve health and wellness.

Required Courses: (11 units)

- ANATMY 1, Human Anatomy (4)
- PHYS 3, Human Physiology (4)
- PRO CR 10, Introduction to Kinesiology (3)

Movement Based Courses: Select 1 course from 3 different areas: (3 units)

- Aquatics: KIN PE 48A, 48B, 48C, 48D, 49A, 49C, 49D, 50A, 50C, 51A, 51B
- Combatives: KIN PE 34A, 34B, 41W
- Dance: DANCE 14, 15, 17, 18, 19, 20, 21A (formerly DANCE 21), 22, 23, 24, 25, 27, 27B, 29, 31, 32, 41, 42, 60
- Fitness: KIN PE 2, 10A, 11A, 11B, 11C, 11N, 13, 15A, 17, 19A, 19B, 19C, 19D, 29A, 58A, 58B, 58C
- Individual Sports: KIN PE 5A, 5B, 5C, 14, 15A, 16A, 25A, 25B, 25C, 25D, 53A, 53B, 54A, 54B, 54C, 54D, 56A, 56B
- Team Sports: KIN PE 9A, 9B, 9C, 9W, 21, 21C, 43A, 45A, 57A, 57B, 57C, 59A, 59B, 59C

Support Courses: Select 2 courses from the following: (6 units minimum)

- BIOL 2, Human Biology (3)
-
- CHEM 10, Introductory General Chemistry (5)
- or**
- CHEM 11, General Chemistry I (5)
- or**
- CHEM 19, Fundamentals of General, Organic, and Biological Chemistry (5)
-
- MATH 54, Elementary Statistics (4)
- PHYSCS 6, General Physics 1 with Lab (4)
-

PHYSCS 8, Calculus-Based General Physics 1 with Lab (4)

or

PHYSCS 21, Mechanics with Lab (5)

ATHLETIC COACHING, ASSOCIATE DEGREE OR CERTIFICATE OF ACHIEVEMENT

The Athletic Coaching program prepares students to coach a variety of sports and fitness activities. The program includes courses in Kinesiology Physical Education, Athletics, and Nutrition. Students will understand the basics of training and fitness, prevention of injuries, nutrition, and the fundamental skills of the sport in their area of emphasis. Athletic Coaching can lead to employment as sport coaches at the High School, Collegiate, Recreational, and Club levels.

For additional career possibilities, visit the Career Services Center on the main campus to utilize computerized career information systems and other valuable career resources.

Program Learning Outcomes: Upon completion of the program, students will demonstrate how to safely train and prepare athletes and teams for competitions. They will also demonstrate the skills and techniques associated with the sport in their area of specialization, and will demonstrate familiarity with techniques for motivating athletes and team performance.

Required Core Courses: (17 units)

KIN PE 3, Introduction to Exercise Physiology I (3)

KIN PE 4, Introduction to Sport Psychology (3)

NUTR 4, Healthy Lifestyle: Food and Fitness (3)

PRO CR 11, Introduction to Sports Injuries (3)

PRO CR 19, Field Experience (2)

HEALTH 11, First Aid and Cardio-Pulmonary Resuscitation (3)

or

PRO CR 12, Emergency Care and Water Safety (3)

Area of Specialization; Select 1 course from the following: (3 units)

PRO CR 3, Coaching of Racquet Sports (3)

PRO CR 4, Coaching of Track and Field (3)

PRO CR 6A, Coaching of Football (3)

PRO CR 6B, Coaching of Baseball (3)

PRO CR 7, Coaching of Soccer (3)

PRO CR 8, Coaching of Basketball (3)

PRO CR 9, Coaching of Volleyball (3)

PRO CR 25, Personal Trainer Preparation (3)

Required Fitness Courses; complete a minimum of 2 units by selecting from the following courses:

KIN PE 2, Achieving Lifetime Fitness (3)

KIN PE 10A, Fitness Lab (1) *(formerly KIN PE 10)*

KIN PE 10C, Advanced Fitness Lab (1)

KIN PE 11A, Beginning Weight Training (1)

KIN PE 11B, Intermediate Weight Training (1)

KIN PE 11C, Advanced Weight Training (1)

KIN PE 11N, Individual Weight Training (1)

KIN PE 12, Olympic-Style Weightlifting (1)

KIN PE 17, Boxing for Fitness (1)

KIN PE 18, Beginning Fitness Walking (1)

KIN PE 19A, Fitness – Anaerobic Exercises (1)

KIN PE 19B, Fitness – Aerobic Exercises (1)

KIN PE 19C, Fitness – Body Level Exercises (1)

KIN PE 19D, Fitness – Aquatic Exercises (1)

KIN PE 29A, Pilates Mat Exercise (1)

KIN PE 58A, Beginning Yoga (1)

KIN PE 58B, Intermediate Yoga (1)

KIN PE 58C, Advanced Yoga (1)

VAR PE 11A, In-Season Intercollegiate Strength and Conditioning (1) *(formerly same as VAR PE 11)*

VAR PE 11B, Off-Season Intercollegiate Strength and Conditioning (1)

VAR PE 60, Conditioning for Intercollegiate Sport (1)

Sports Area: select 2 courses: 1 from List A and a different course from List B.

List A: Includes all KIN PE Courses that are NOT in the Fitness list: (1 unit required)

KIN PE 1A, Adaptive Physical Education (1)

KIN PE 5A, Beginning Badminton (1)

KIN PE 5B, Intermediate Badminton (1)

KIN PE 7C, Advanced Baseball for Men (1)

KIN PE 9A, Beginning Basketball (1)

KIN PE 9B, Intermediate Basketball (1)

KIN PE 13, Beginning Spinning (1)

KIN PE 14A, Beginning Distance Running/Cross Country (1) *(formerly KIN PE 14)*

KIN PE 14B, Intermediate Distance Running/Cross Country (1)

KIN PE 15A, Cycling (1)

KIN PE 16A, Beginning Rock Climbing (1)

KIN PE 21, Coed Touch Football (3)

KIN PE 25A, Beginning Golf (1)

KIN PE 25B, Intermediate Golf (1)

KIN PE 25C, Advanced Golf (1)

KIN PE 34A, Karate (1)

KIN PE 34B, Intermediate Karate (1)

KIN PE 34C, Advanced Intermediate Karate (1)

KIN PE 35A, Beginning Wushu/Kung Fu (1)

KIN PE 41M, Self Defense – Men (1)

KIN PE 41W, Self Defense – Women (1)

KIN PE 43A, Beginning Soccer (1)

KIN PE 43B, Intermediate Soccer (1)

KIN PE 43C, Advanced Soccer (1)

KIN PE 45A, Beginning Softball (1)

KIN PE 45B, Intermediate Softball (1)

KIN PE 46, Performance Cheerleading (3)

KIN PE 48A, Beginning Swimming (1)

KIN PE 48B, Elementary Swimming (1)

KIN PE 48C, Intermediate Swimming (1)

KIN PE 49A, Board Diving (3)

KIN PE 49C, Skin Diving (1)

KIN PE 50A, Beginning Water Polo (1)

KIN PE 50B, Intermediate Water Polo (1)

KIN PE 51A, Beginning Surfing (1)

KIN PE 52A, Beginning Pickleball (1)

KIN PE 53A, Table Tennis (1)

KIN PE 54A, Beginning Tennis, First Level (1)

KIN PE 54B, Beginning Tennis, Second Level (1)

KIN PE 54C, Intermediate Tennis (1)

KIN PE 56A, Beginning Track and Field (1)

KIN PE 57A, Beginning Volleyball (1)

KIN PE 57B, Intermediate Volleyball (1)

KIN PE 59A, Beginning Beach Volleyball (1)

KIN PE 59B, Intermediate Beach Volleyball (1)

List B: Highest Level Courses: (1 unit required)

KIN PE 5C, Advanced Badminton (1)

KIN PE 9C, Advanced Basketball (1)

KIN PE 9W, Advanced Basketball for Women (1)

KIN PE 10C, Advanced Fitness Lab (1)
 KIN PE 11C, Advanced Weight Training (1)
 KIN PE 12, Olympic-Style Weightlifting (1)
 KIN PE 14C, Advanced Distance Running/Cross Country (1)
 KIN PE 16B, Intermediate Rock Climbing (1)
 KIN PE 21C, Advanced Football for Men (1)
 KIN PE 25D, Golf Player Development (1)
 KIN PE 34D, Advanced Karate (1)
 KIN PE 35B, Intermediate Wushu/Kung Fu (1)
 KIN PE 43D, Competitive Soccer (1)
 KIN PE 45C, Advanced Softball (1)
 KIN PE 45D, Competitive Softball (1)
 KIN PE 45D, Competitive Softball (1)
 KIN PE 48D, Advanced Swimming (1)
 KIN PE 50C, Advanced Water Polo (1)
 KIN PE 50D, Competitive Water Polo (1)
 KIN PE 51B, Intermediate Surfing (1)
 KIN PE 52B, Intermediate Pickleball (1)
 KIN PE 53B, Intermediate Table Tennis (1)
 KIN PE 54D, Advanced Tennis (1)
 KIN PE 56B, Intermediate Track and Field (1)
 KIN PE 57C, Advanced Volleyball (1)
 KIN PE 59C, Advanced Beach Volleyball (1)
 VAR PE 9V, Varsity Basketball for Men (3)
 VAR PE 9W, Varsity Basketball for Women (3)
 VAR PE 14V, Varsity Cross Country for Men (3)
 VAR PE 14W, Varsity Cross Country for Women (3)
 VAR PE 20V, Advanced Football for Men (1)
 VAR PE 21V, Varsity Football for Men (3)
 VAR PE 43V, Varsity Soccer for Men (3)
 VAR PE 43W, Varsity Soccer for Women (3)
 VAR PE 45W, Varsity Softball for Women (3)
 VAR PE 48V, Varsity Swimming and Diving for Men (3)
 VAR PE 48W, Varsity Swimming and Diving for Women (3)
 VAR PE 50V, Varsity Water Polo for Men (3)
 VAR PE 50W, Varsity Water Polo for Women (3)
 VAR PE 54W, Varsity Tennis for Women (3)
 VAR PE 56V, Varsity Track and Field for Men (3)
 VAR PE 56W, Varsity Track and Field for Women (3)
 VAR PE 57V, Varsity Volleyball for Men (3)
 VAR PE 57W, Varsity Volleyball for Women (3)
 VAR PE 59W, Varsity Beach Volleyball for Women (3)

Korean

See *Modern Languages*

Latin American Studies

See *Modern Languages*

Liberal Arts

Liberal Arts provides a broad education that can be used in many different careers programs of study. Liberal arts studies include English, Communication, Arts and Humanities, Science, Social Science, and Physical Education. At SMC, the program offers students the choice of focusing on the arts and humanities or on the social and behavioral sciences. Arts and humanities coursework includes languages, literature, art, music, philosophy, and religion. Social and

behavioral sciences coursework emphasizes economics, history, political science, psychology, sociology, and anthropology. Elementary school teachers often earn degrees in liberal arts. Additional career options include advertising, business, health administration, human resources management, politics, education, government, computers, writing, and editing. For additional information on Teacher Preparation, please see the Teacher Preparation guide, available online at smc.edu/articulation and in General Counseling & Transfer Services.

Programs Offered:

- Transfer Preparation
- Liberal Arts Associate Degree (Historical)
- Liberal Arts – Arts and Humanities Associate Degree
- Liberal Arts – Social and Behavioral Science Associate Degree

TRANSFER PREPARATION

Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

LIBERAL ARTS, ASSOCIATE DEGREE (HISTORICAL)

The Liberal Arts Associate degree is available to students who enrolled at SMC in spring 2010 or earlier and who have maintained catalog rights. (See page 34 for definition of catalog rights.) For Liberal Arts Associate degree requirements, please see the 2008-09 SMC catalog.

LIBERAL ARTS – ARTS AND HUMANITIES

Liberal Arts – Arts and Humanities is program that focuses on combined studies in art and humanities, as distinguished from the social and behavioral sciences, with an emphasis on languages, literature, art, music, philosophy, and religion. This major provides a broad education that can be used in a variety of careers, including teaching. For additional information on teacher preparation, please see the Teacher Preparation Guide in General Counseling & Transfer Services or at smc.edu/articulation.

Program Learning Outcomes: Students completing a degree in Liberal Arts – Arts and Humanities will demonstrate through oral and written academic work knowledge of the arts and humanities and be prepared to pursue further study in a related major at the baccalaureate level. Students will be proficient in the research, analytical, and communication skills necessary to present a critical analysis.

Required Courses:

Complete 18 units, including at least 6 units from Area A and 6 units from Area B, as specified below. Remaining 6 units may be chosen from any area/group. Select from the following two groups:

GROUP A: ARTS

Select at least 2 courses from different groups: (6 units minimum required)

GROUP 1:

ART 10A, 10B, 13, 20A, 20B, 40A, 40B, 43A, 43B

GROUP 2:

AHIS 1^{6C}, 2^{6C}, 3^{6C}, 5^{6C}, 6^{6C}, 11^{6C}, 15, 17^{6C}, 18^{6C}, 21^{6C}, 22, 52 (same as PHOTO 52), 71^{6C}, 72^{6C};

ANIM 5 (formerly ET 61);

GR DES 64 (formerly same as ET 37);

PHOTO 52 (formerly same as AHIS 52)

GROUP 3:

DANCE 2^{6C}, 5

GROUP 4:

FILM 1, 2, 5, 6, 8, 9, 10, 11

GROUP 5:

IARC 15 (formerly INTARC 34)

GROUP 6:

MUSIC 1, 29, 30, 31, 32, 33^{6C}, 36^{6C}, 37^{6C}, 39, 60A, 60B, 66

GROUP 7:

ENGL 55;

TH ART 2, 5, 41

GROUP B: HUMANITIES

Select at least 2 courses from 2 **different** groups OR 2 courses in different languages from Group 1: (6 units minimum required)

GROUP 1:

ASL 1^{6C}, 2^{6C};

ARABIC 1^{6C};

CHNESE 1^{6C}, 2^{6C}, 3^{6C}, 4^{6C}, 8, 9;

FRENCH 1^{6C}, 2^{6C}, 3^{6C}, 4^{6C}, 8;

GERMAN 1^{6C}, 2^{6C}, 3^{6C}, 4^{6C}, 8;

HEBREW 1^{6C}, 2^{6C}, 3^{6C}, 4^{6C}, 8;

ITAL 1^{6C}, 2^{6C}, 3^{6C}, 4^{6C}, 8;

JAPAN 1^{6C}, 2^{6C}, 3^{6C}, 4^{6C}, 8;

KOREAN 1^{6C}, 2^{6C}, 3^{6C}, 4^{6C};

PERSIN 1^{6C}, 2^{6C};

PORTGS 1^{6C}; 2

RUSS 1^{6C}, 2^{6C}, 8;

SPAN 1^{6C}, 2^{6C}, 3^{6C}, 4^{6C}, 8, 9, 11^{6C}, 12^{6C}, 20;

TURK 1^{6C}

GROUP 2:

COM ST 12, 14^{6C}

GROUP 3:

ENGL 2, 3, 4, 5, 6, 7, 8, 9^{6C}, 10^{6C}, 14, 15, 17, 18, 26 (same as HUM 26), 30A, 30B, 31, 32, 34, 38, 39, 40, 41, 45, 49^{6C}, 50, 51 (same as REL ST 51), 52 (same as REL ST 52), 53, 54, 55, 56, 57, 58, 59, 61, 62;

FILM 11 (same as ENGL 11);

HUM 9A, 26;

JAPAN 9;

REL ST 51 (same as ENGL 51), 52 (same as ENGL 52)

GROUP 4:

FILM 7^{6C}

GROUP 5:

PHILOS 48

GROUP 6:

ENVRN 20^{6C} (same as PHILOS 20);

PHILOS 1, 2, 3, 4, 5, 6, 10, 11, 20^{6C} (same as ENVRN 20), 22, 23, 24, 41, 51 (same as POL SC 51), 52 (same as POL SC 52);

POL SC 51 (same as PHILOS 51), 52 (same as PHILOS 52)

GROUP 7:

LING 1^{6C}

PLEASE NOTE: ^{6C} indicates courses that fulfill the SMC Global Citizenship requirement.

LIBERAL ARTS – SOCIAL AND BEHAVIORAL SCIENCE

The Liberal Arts – Social and Behavioral Science program focuses on the combined study of the social and behavioral sciences, as distinguished from the arts and humanities, with an emphasis on economics, history, political science, psychology, sociology, and anthropology. This major provides a broad education that can be used in a variety of careers, including teaching.

Program Learning Outcomes: Students completing a degree in Liberal Arts – Social and Behavioral Science will demonstrate through oral and written academic work knowledge of the social and behavioral sciences and be prepared to pursue further study in a related major at the baccalaureate level. Students will be proficient in the research, analytical, and communication skills necessary to present a critical analysis.

Complete 18 units, including at least 6 units from Area A and 6 units from Area B, as specified below. Remaining 6 units may be chosen from any area/group. Select from the following two groups:

AREA A: SOCIAL SCIENCE

Select at least 2 courses from different groups: (minimum 6 units required)

GROUP 1:

ECON 1, 2, 6

GROUP 2:

GEOG 2, 7^{6C} (same as ENVRN 7), 8 (same as URBAN 8), 11^{6C} (same as GLOBAL 11), 14^{6C}

GROUP 3:

COM ST 30;

ENGL 32;

HIST 1, 2, 3, 4, 5, 6^{6C}, 10^{6C}, 11, 12, 13, 14^{6C} (same as ENVRN 14), 15 (same as ECON 15), 16, 19, 20, 21,

22, 24, 25^{6C}, 26, 28, 29, 32^{6C} (same as ENVRN 32),

33, 34^{6C}, 38, 39^{6C}, 41, 42, 43, 47, 48 (same as PHILOS 48), 52, 53, 55, 62;

PHILOS 48

GROUP 4:

POL SC 1, 2, 3, 5^{6C} (same as ECON 5 and GLOBAL 5), 7, 8, 11, 14, 21^{6C}, 22^{6C} (same as ENVRN 22), 23, 24, 31,

47, 51 (same as PHILOS 51), 52 (same as PHILOS 52)

GROUP 5:

AD JUN 1, 2;

SOCIOL 1, 1s^{6C}, 2, 2s^{6C}, 4, 12, 30, 31, 32, 33, 34^{6C}

WGS 10^{6C}, 20^{6C}, 30^{6C}

GROUP 7:

AD JUN 1, 2;

GLOBAL 10^{6C}

AREA B: BEHAVIORAL SCIENCE

Select at least 2 courses from different groups: (6 units minimum required)

GROUP 1:

ANTHRO 2^{6C}, 3, 4, 7, 14^{6C}, 19^{6C}, 20, 21^{6C}, 22;

ASTRON 6^{6C}

GROUP 2:NUTR **7^{ec}****GROUP 3:**COM ST 31, 35, 36, **37^{ec}****GROUP 4:**

GLOBAL 3 (same as MEDIA 3);

MEDIA 1, 3 (same as GLOBAL 3), **10^{ec}****GROUP 5:**ECE **11^{ec}**;ENVRN **40^{ec}** (same as PSYCH 40);PSYCH 1, 3, 5, 6, 7, 11, 13, 14, 19, 25, **40^{ec}** (same as ENVRN 40)

PLEASE NOTE: ^{ec} indicates courses that fulfill the SMC Global Citizenship requirement.

Linguistics

See *Modern Languages*

Mathematics

Mathematicians use symbolic languages to set up and analyze relationships among quantities and qualities of things, events, and places. Pure mathematicians develop the theories to further the science of mathematics. Possible careers include actuary, computer engineer, cryptographer, satellite communications expert, robotics programmer, statistician and teacher.

Programs Offered:

- Transfer Preparation
- Mathematics Associate Degree for Transfer
Students may satisfy the requirements of this degree with approved courses (which may be fewer units) taken at other California Community Colleges. The courses listed below are SMC courses. If completed entirely at SMC, the academic path requires 21 units.

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

The **University of California system has a transfer pathway** for any UC campus that offers Mathematics. For more information, visit pathwaysguide.universityofcalifornia.edu

SMC offers the **Mathematics Associate Degree for Transfer**. Students completing this degree are eligible for priority transfer admission consideration in the majors at many **California State University** campuses. In addition, students will be required to complete no more than 60 semester/90 quarter CSU units of coursework after transfer to complete the baccalaureate degree.

Transfer and program requirements are subject to change. For the most up-to-date information regarding transfer preparation visit assist.org and regarding degree and certificate requirements visit smc.edu/articulation.

NOTE: Students considering transfer to a UC, private, or out-of-state school should consult a counselor BEFORE applying to transfer, as the transfer requirements may be different from those required for the Mathematics AS-T.

The most current list of CSU campuses accepting this Associate Degree for Transfer is available online at calstate.edu/transfer/adt-search/search.shtml

MATHEMATICS, ASSOCIATE DEGREE FOR TRANSFER

Upon successful completion of the Santa Monica College's AS-T in Mathematics, the student will have a strong academic foundation in the field and be prepared for upper-division baccalaureate study. This coursework will satisfy most of the lower-division Mathematics requirements at many institutions at both the University of California and the California State University systems. This degree is intended for students who are interested in the theory of Mathematics and are planning to transfer to a four-year university and majoring in Mathematics, Physics, Engineering, or Computer Science.

Program Learning Outcomes: Upon completion of the program, students will demonstrate an appreciation and understanding of mathematics in order to develop creative and logical solutions to various abstract and practical problems. Furthermore, given a mathematical situation, the student will be able to critically analyze it, determine an appropriate strategy to address it, and implement the strategy to find the solution.

Required Courses: (18 units)

- MATH 7, Calculus 1 (5)
- MATH 8, Calculus 2 (5)
- MATH 11, Multivariable Calculus (5)
- MATH 13, Linear Algebra (3)

Select 1 course from the following: (3 units)

- MATH 10, Discrete Structures (3) (formerly same as CS 10) (strongly recommended)
- MATH 15, Ordinary Differential Equations (3) (strongly recommended)
- PHYSICS 8, Calculus-based General Physics 1 with Lab (4)
- PHYSICS 21, Mechanics with Lab (5)

Media Studies

Media is a versatile discipline consisting of two areas of study: media studies and media production. Our media studies area focuses on the analysis of the mass media. Media Studies courses use an analytical and historical approach, and students develop skills to assess the role and impact of mass media on society. Students examine the history, values, and structure of media in the US and internationally. Media literacy skills are another fundamental component of Media Studies courses. Upon successful completion of our Media Studies courses, each student should leave as a media literate individual – a more aware, critical audience member with a well-developed sense of mass media's role in society. There is a wide range of employment possibilities for students trained in Media Studies, including positions in public relations, business, sales, public and personnel relations, and advertising.

SMC's Media Production courses provide hands-on training in the areas of television, radio and internet broadcasting, including broadcast news, sports, promotional videos, podcasting, short form and emerging media (360/virtual and augmented reality). Students completing the Broadcasting degrees and/or certificates are prepared for both employment opportunities in the broadcasting industry and transfer into four-year degree programs. The Promo Pathway program provides intensive training and internships for students pursuing promo advertising careers opportunities in the broadcasting industry and transfer into four-year degree programs.

Programs Offered:

- Transfer Preparation
- Broadcast Programming and Production Associate Degree
- Broadcast Sales and Management Associate Degree
- Entertainment Promotion and Marketing Production Associate Degree
- Broadcast Programming and Production Certificate of Achievement (20 units)
- Broadcast Sales and Management Certificate of Achievement (21 units)
- Entertainment Promotion and Marketing Production Certificate of Achievement (24 units)
- See also Communication Studies
- See also Journalism

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

BROADCAST PROGRAMMING AND PRODUCTION, ASSOCIATE DEGREE OR CERTIFICATE OF ACHIEVEMENT

Program Learning Outcomes: Upon completion of the program, students will be able to analyze and articulate the theories and critical models of the broadcasting industry, demonstrating an understanding of the principles of radio and television production and announcing, including professional terminology and procedures. Students will also be able to demonstrate the basic oral and written communication tools needed to function professionally in a radio and television production environment, including the ability to research, structure, and write dramatic and non-dramatic scripts for radio and television.

Required Courses: (15 units)

- JOURN 4A, Newscasting and Newswriting (5) (*same as MEDIA 14*)
- MEDIA 1, Survey of Mass Media Communications (3)
- MEDIA 11, Introduction to Broadcasting (3)

- MEDIA 12, Broadcasting Programming and Management (3)
- MEDIA 13, Broadcasting Announcing and Production (3)
- MEDIA 14, Newscasting and Newswriting (3) (*same as JOURN 4A*)

Restricted Electives; Select at least 5 units from the following list:

- MEDIA 2, Reading Media: Acquiring Media Literacy Skills (3)
- MEDIA 15, Advanced Newscasting and Newswriting (3) (*formerly same as JOURN 4B*)
- MEDIA 16, Sportscasting Fall Sports (3)
- MEDIA 17, Sportscasting Spring Sports (3)
- MEDIA 18, Broadcast Advertising (3)
- MEDIA 19, Beginning Radio/Podcasting Production Workshop (3)
- MEDIA 20, Introduction to Media Writing and Producing Short-Form Content (3)
- MEDIA 21, Short-Form Visual Media Production (3)
- MEDIA 46, Television Production (3)
- MEDIA 48, Television Field Production Workshop (3)
- MEDIA 90A, Media Studies Internship (1)
- MEDIA 90B, Media Studies Internship (2)

Additional general education and graduation requirements for the Associate degree from Santa Monica College are listed in the Academics section of this catalog, as well as online (go to smc.edu/articulation).

BROADCAST SALES AND MANAGEMENT, ASSOCIATE DEGREE OR CERTIFICATE OF ACHIEVEMENT

Program Learning Outcomes: Upon completion of the program, students will be able to analyze and articulate the theories and critical models of the broadcasting industry, demonstrating an understanding of the principles of radio and television production and announcing, including professional terminology and procedures. Students will also be able to demonstrate the basic oral and written communication tools needed to function professionally in a radio and television production environment, including the ability to research, structure, and write dramatic and non-dramatic scripts for radio and television.

Required Courses: (18 units)

- BUS 23, Principles of Selling (3)
- MEDIA 1, Survey of Mass Media Communications (3)
- MEDIA 11, Introduction to Broadcasting (3)
- MEDIA 12, Broadcasting Programming and Management (3)
- MEDIA 13, Broadcasting Announcing and Production (3)
- MEDIA 18, Broadcast Advertising (3)

Restricted Electives; Select at least 3 units from the following:

- BUS 1, Introduction to Business (3)
- BUS 27, Introduction to E-Commerce (3)
- BUS 63, Principles of Entrepreneurship (3)
- MEDIA 2, Reading Media: Acquiring Media Literacy Skills (3)
- MEDIA 20, Introduction to Media Writing and Producing Short-Form Content (3)
- MEDIA 21, Short-Form Visual Media Production (3)
- MEDIA 90A, Media Studies Internship (1)
- MEDIA 90B, Media Studies Internship (2)

ENTERTAINMENT PROMOTION AND MARKETING PRODUCTION, ASSOCIATE DEGREE OR CERTIFICATE OF ACHIEVEMENT

The Entertainment Promotion and Marketing Production program provides students with the skills, knowledge, training, and relationships necessary for entry level employment in the entertainment promotion and marketing production area of the advertising and promotion media industry. This industry sector includes the writing, producing, editing, and design of on-air and off-air promotions, commercial advertisements and public service announcements, and ancillary mass media areas such as media strategy and planning, public relations, publicity, and broadcast/internet/interactive media marketing production.

Program Learning Outcomes: Upon completion of the program, students will demonstrate the ability to use digital video and audio workstations to produce promotional spots, commercials, and various other electronic media projects. Students will have gained basic training and practical experience in writing, producing, music selection, and directing voice-over talent for marketing and alternative media branding campaigns; and they will understand modern business marketing concepts and strategies and become familiar with standards, procedures, and techniques used in marketing, including marketing research, target marketing; promotion, and digital media distribution strategies.

Required Core Courses: (18 units)

- BUS 28, Marketing Promotion (3)
- GR DES 18, Introduction to Graphic Design Applications (3)
- DMPOST 3, Digital Video Fundamentals (3) (formerly ET 31A)
- DMPOST 30, Digital Video Editing (3) (formerly ET 31B)
- MEDIA 20, Introduction to Media Writing and Producing Short-Form Content (3)
- MEDIA 21, Short-Form Visual Media Production (3)

Restricted Electives: (6 units)

- ANIM 75, Career Development (2) (formerly ET 72)
- BUS 26, Marketing Research and Consumer Behavior (3)
- BUS 29, Public Relations and Publicity (3) (same as JOURN 43)
- BUS 34A, Introduction to Digital Marketing (3) (formerly BUS 34)
- COM ST 12, Persuasion (3)
- COUNS 16, Job Success Skills (1)
- DMPOST 1, Digital Media Workflow Management (3) (formerly ET 3)
- DMPOST 2, Digital Audio Fundamentals (3) (formerly ET 40)
- DMPOST 20, Digital Audio Editing (3) (formerly ET 41)
- GR DES 64, Digital Imaging for Design I (3) (formerly ET 37)
- GR DES 71, Motion Graphics 1 (3) (formerly ET 58)
- JOURN 43, Public Relations and Publicity (3) (same as BUS 29)
- MEDIA 2, Reading Media: Acquiring Media Literacy Skills (3)
- MEDIA 11, Introduction to Broadcasting (3)
- MEDIA 13, Broadcasting Announcing and Production (3)
- MEDIA 18, Broadcast Advertising (3)

- MEDIA 19, Beginning Radio/Podcasting Production Workshop (3)
- MEDIA 90A, Media Studies Internship (1)
- MEDIA 90B, Media Studies Internship (2)

Microbiology

See *Biological Sciences*

Modern Languages

Santa Monica College offers language development courses in American Sign Language, Arabic, Chinese, French, German, Hebrew, Italian, Japanese, Korean, Linguistics, Persian, Portuguese, Russian, Spanish, and Turkish.

Programs Offered:

- Transfer Preparation
- See Spanish for Spanish Associate Degree for Transfer
- African and Middle Eastern Studies Certificate of Achievement (16 units)
- Asian Studies Certificate of Achievement (16 units)
- Latin American Studies Certificate of Achievement (16 units)

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in various languages and linguistics. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

AFRICAN AND MIDDLE EASTERN STUDIES, CERTIFICATE OF ACHIEVEMENT

The African and Middle Eastern Studies Certificate of Achievement prepares students for work with Arabic, Hebrew, Persian, Turkish, French, Spanish, and/or Portuguese-speaking populations from Africa and the Middle East in the US and abroad. This certificate is designed to complement an Associate degree. Students will analyze and examine the countries and cultures of Africa and the Middle East.

Program Learning Outcomes: Upon completion of the program, students will demonstrate coherent and comprehensive analyses of the cultural and linguistic diversity of Africa and the Middle East and the differences and commonalities in their world views and systems.

Required Language Courses: (10 units minimum)

- ARABIC 1, Elementary Arabic 1 (5)
- ARABIC 99, Applied Learning in Arabic (1)
- FRENCH 4, Intermediate French II (5)
- FRENCH 8, Conversational French (2)

FRENCH 9, French Culture and Civilization (3)
 FRENCH 99 Applied Learning in French (1)
 HEBREW 4, Intermediate Hebrew 2 (5)
 HEBREW 8, Conversational Hebrew (2)
 HEBREW 99 Applied Learning in Hebrew (1)
 PERSIN 2, Elementary Persian II (5)
 PERSIN 99 Applied Learning in Persian (1)
 PORTGS 2, Elementary Portuguese 2 (5)
 SPAN 4, Intermediate Spanish II (5)
 SPAN 8, Conversational Spanish (2)
 SPAN 9, The Civilization of Spain (3)
 SPAN 25 Spanish for the Professions (3)
 SPAN 99 Applied Learning in Spanish (1)
 TURK 1, Elementary Turkish 1 (5)

Required Liberal Arts Courses: (6 units minimum)

AHIS 18, Introduction to African Art History (3)
 ANTHRO 20, Traditional Peoples and Cultures of Africa (3)
 ENGL 32, History and Literature of Contemporary Africa (3)
 HIST 16, African American History (3)
 HIST 22, History of the Middle East (3)
 HIST 38, African History I (3)
 HIST 39, African History II (3)
 POL SC 14, Middle East Government and Politics (3)
 SOCIOL 30, African Americans in Contemporary Society (3)

ASIAN STUDIES, CERTIFICATE OF ACHIEVEMENT

The Asian Studies Certificate of Achievement prepares students for work with speakers of Chinese, Japanese, or Korean in the US and abroad. This certificate provides broad preparation for liberal arts students who seek to develop expertise in China, Japan, or Korea. This certificate is designed to complement an Associate degree. Students will analyze and examine the countries and cultures of Asia.

Program Learning Outcomes: Upon completion of the program, students will demonstrate coherent and comprehensive analyses of the cultural and linguistic diversity of East Asia and the differences and commonalities in the world view and systems of China, Japan, or Korea.

Select 1 "Language Track" from the choices below:

Chinese Language Track: (10 units minimum)

CHNESE 9, Chinese Culture and Tradition (3)

and

Complete a minimum of 7 units from the following:

CHNESE 3, Intermediate Chinese 1 (5)
 CHNESE 4, Intermediate Chinese 2 (5)
 CHNESE 8, Conversational Chinese (2)
 CHNESE 99, Applied Learning in Chinese (1)

Japanese Language Track: (10 units minimum)

JAPAN 9, Japan: Culture and Civilization (3)

and

Complete a minimum of 7 units from the following:

JAPAN 3, Intermediate Japanese I (5)
 JAPAN 4, Intermediate Japanese II (5)
 JAPAN 8, Conversational Japanese (2)
 JAPAN 99, Applied Learning in Japanese (1)

Korean Language Track: (10 units minimum)

KOREAN 3, Intermediate Korean I (5)

KOREAN 4, Intermediate Korean II (5)

KOREAN 8, Conversational Korean (2)

KOREAN 25, Korean for the Professions (3)

KOREAN 99 Applied Learning in Korean (1)

Liberal Arts Focus Area; select a minimum of 6 units from the courses below:

AHIS 17, Arts of Asia (3)

ENGL 40, Asian Literature (3)

ENGL 45, Asian Film, Literature, and Society (3)

ENGL 49, Asian Mythology (3)

HIST 24, History of East Asia to 1600 (3)

HIST 25, History of East Asian Since 1600 (3)

HIST 27 History of Southeast Asia (3)

HIST 62, Asian-American History (3)

HUM 9A South Asia: Culture and Civilization (3)

PHILOS 22, Asian Philosophy (3)

POL SC 8, The Modern Far East (3)

SOCIOL 32, Asian Americans in Contemporary Society (3)

LATIN AMERICAN STUDIES, CERTIFICATE OF ACHIEVEMENT

The Latin American Studies Certificate of Achievement prepares students for work with Spanish- and/or Portuguese-speaking populations in the US and abroad. This certificate is designed to complement an Associate degree. Students will analyze and examine the countries and cultures of Latin America and the Caribbean.

Program Learning Outcomes: Upon completion of the program, students will demonstrate coherent and comprehensive analyses of the cultural and linguistic diversity of Latin America and the Caribbean and the differences and commonalities in their world views and systems.

Required Language Courses: (7 units minimum)

PORTGS 2, Elementary Portuguese 2 (5)

PORTGS 99, Applied Learning in Portuguese (1)

SPAN 3, Intermediate Spanish I (5)

SPAN 4, Intermediate Spanish II (5)

SPAN 8, Conversational Spanish (2)

SPAN 12, Spanish for Native Speakers 2 (5)

SPAN 25, Spanish for the Professions (3)

SPAN 99, Applied Learning in Spanish (1)

Required Civilization Course:

SPAN 20, Latin American Civilization (3)

Liberal Arts Curriculum; select a minimum of 6 units from the courses below:

AHIS 5, Latin American Art History 1 (3)

AHIS 6, Latin American Art History 2 (3)

AHIS 15, Mexican Art History (3)

ANTHRO 21, Peoples and Power in Latin America (3)

ANTHRO 35s, Archeological Field Techniques (3)

ENGL 57, Latin-American Literature (3)

ENGL 58, Literature of Mexico (3)

HIST 5, History of Latin America 1 (3)

HIST 6, History of Latin America 2 (3)

HIST 19, History of Mexico (3)

HIST 42, The Latina/o Experience in the United States (3)

HIST 43, Mexican-American History (3)

SOCIOL 31, Latinas/os in Contemporary Society (3)

Music

The Music Associate in Arts degree provides educational opportunities to explore and expand students' knowledge, performance skills, and appreciation of music. In this context, "appreciation" means understanding the value, characteristics, components, cultural meanings, and historical contexts of various styles of music. The curriculum includes applied and group music instruction, history, performance ensembles, theory, and musicianship.

NOTE: Students have the choice of following the General Music or Applied Music option requirements. Only one degree can be awarded. For both options (General and Applied), the degree is "Associate of Arts in Music."

Programs Offered:

- Transfer Preparation
- Music Associate Degree

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

MUSIC, ASSOCIATE DEGREE

NOTE: Students have the choice of following the Music or Applied Music option requirements. Only one degree can be awarded. For both options (general and applied), the degree is "Associate in Arts in Music." The descriptors "General" and "Applied" are not included on transcripts or diplomas.

Program Learning Outcomes: Upon completion of the program, students will demonstrate conversance in music theory, musicianship, and music history. Students will show proficiency in basic keyboard skills, and will demonstrate performance ability as active members of an ensemble.

Recommended Preparation: Students are strongly recommended to take one of these two courses prior to taking any other major courses:

MUSIC 1, Fundamentals of Music (3)

or

MUSIC 66, Fundamentals of Music and Beginning Piano (5)

and

MUSIC 5, Fundamentals of Musicianship (2)

Required Courses: (15 units)

MUSIC 2, Musicianship (2)

MUSIC 3, Musicianship (2)

MUSIC 4, Musicianship (2)

MUSIC 6, Diatonic Harmony (3)

MUSIC 7, Chromatic Harmony (3)

MUSIC 8, Modulation and Analysis (3)

Select 2 courses from the following:

MUSIC 60A, Elementary Piano, First Level (2)

or

MUSIC 66, Fundamentals of Music and Beginning Piano (5)

MUSIC 60B, Elementary Piano, Second Level (2)

MUSIC 60C, Elementary Piano, Third Level (2)

MUSIC 60D, Elementary Piano, Fourth Level (2)

MUSIC 61A, Intermediate Piano, Fifth Level (2)

MUSIC 61B, Intermediate Piano, Sixth Level (2)

MUSIC 64, Piano Ensemble (2)

MUSIC 69D, Interpretation of 20th Century Piano Music (2)

Students who have exceeded the intermediate/early advanced level in piano may receive an exemption from this requirement through an audition administered by the piano faculty. A letter from the department chair will serve as certification of a successful audition and the authorized exemption. Students exempted from this requirement will receive course credit, but not unit credit. Any of the degree-applicable elective music courses may substitute for those units.

The following courses are recommended, though not required, for students pursuing either the Applied Music or Music option:

MUSIC 30, Music History I (3)

MUSIC 31, Music History II (3)

OPTION 1: Applied Music

Students pursuing the Applied Music option must complete one course per semester for a total of four semesters in performance ensemble courses selected from the following:

MUSIC 40, Opera Workshop (2)

MUSIC 42, Advanced Opera Production (5)

MUSIC 45, Musical Theatre Workshop (3) (*same as TH ART 45*)

MUSIC 52, Advanced Production – Musical Theatre (5)

MUSIC 53, Jazz Vocal Ensemble (2)

MUSIC 55, Concert Chorale (2)

MUSIC 59, Chamber Choir (2)

MUSIC 64, Piano Ensemble (2)*

MUSIC 73B, Intermediate Percussion Ensemble (2)

MUSIC 74, Orchestra (2)

MUSIC 77, Wind Ensemble (2)

MUSIC 78, Jazz Ensemble (2)

TH ART 45, Musical Theatre Workshop (3) (*same as MUSIC 45*)

Students pursuing the Applied Music option must take 4 semesters of each of the following courses as remaining electives: (12 units, audition required)

MUSIC 92, Applied Music Instruction (2)

MUSIC 94, Concert Music Class (1)

OPTION 2: Music

Students pursuing the Music option must complete a minimum of 8 units for performance ensemble courses selected from the following:

MUSIC 40, Opera Workshop (2)

MUSIC 42, Advanced Opera Production (5)

MUSIC 45, Musical Theatre Workshop (3) (*same as TH ART 45*)

MUSIC 52, Advanced Production – Musical Theatre (5)

MUSIC 53, Jazz Vocal Ensemble (2)
 MUSIC 55, Concert Chorale (2)
 MUSIC 59, Chamber Choir (2)
 MUSIC 64, Piano Ensemble (2)
 MUSIC 73B, Intermediate Percussion Ensemble (2)
 MUSIC 74, Orchestra (2)
 MUSIC 77, Wind Ensemble (2)
 MUSIC 78, Jazz Ensemble (2)
 TH ART 45, Musical Theatre Workshop (3) (*same as MUSIC 45*)

Students pursuing the Music option must complete additional units from the list of electives below to meet the minimum 39 units in total:

MUSIC 1, Fundamentals of Music (3)

or

MUSIC 66, Fundamentals of Music and Beginning Piano (5)

 MUSIC 5, Fundamentals of Musicianship (2)
 MUSIC 10, Popular Harmony and Arranging (3)
 MUSIC 12, Introduction to Music Technology (3)
 MUSIC 13, Tonal Counterpoint (3)
 MUSIC 24, Conducting (2)
 MUSIC 27, Music for Early Childhood Education (3) (*same as ECE 81*)
 MUSIC 29, A World of Music (3)
 MUSIC 30, Music History I (3)
 MUSIC 31, Music History II (3)
 MUSIC 32, Appreciation of Music (3)
 MUSIC 33, Jazz in American Culture (3)
 MUSIC 36, History of Rock Music (3)
 MUSIC 37, Music in American Culture (3)
 MUSIC 39, History of Opera (3)
 MUSIC 40, Opera Workshop (2)
 MUSIC 42, Advanced Opera Production (5)
 MUSIC 45, Musical Theatre Workshop (3) (*same as TH ART 45*)
 MUSIC 50A, Elementary Voice (2)
 MUSIC 50B, Intermediate Voice (2)
 MUSIC 52, Advanced Production – Musical Theatre (5)
 MUSIC 53, Jazz Vocal Ensemble (2)
 MUSIC 55, Concert Chorale (2)
 MUSIC 57, Advanced Vocal Performance Techniques (2)
 MUSIC 59, Chamber Choir (2)

 MUSIC 60A, Elementary Piano, First Level (2)*
or
 MUSIC 66, Fundamentals of Music and Beginning Piano (5)*

 MUSIC 60B, Elementary Piano, Second Level (2)
 MUSIC 60C, Elementary Piano, Third Level (2)
 MUSIC 60D, Elementary Piano, Fourth Level (2)
 MUSIC 61A, Intermediate Piano, Fifth Level (2)
 MUSIC 61B, Intermediate Piano, Sixth Level (2)
 MUSIC 63, Sight Reading at Keyboard (2)
 MUSIC 64, Piano Ensemble (2)*
 MUSIC 65A, Keyboard Improvisation I (2)
 MUSIC 65B, Keyboard Improvisation II (2)
 MUSIC 69D, Interpretation of 20th Century Piano Music (2)
 MUSIC 70A, String Instrument Techniques (2)
 MUSIC 70B, Intermediate Strings Techniques (2)
 MUSIC 70C, Advanced String Techniques (2)

MUSIC 70C, Advanced String Orchestra (2)
 MUSIC 71, Woodwind Instrument Techniques (2)
 MUSIC 72, Brass Instrument Techniques (2)
 MUSIC 73A, Percussion Ensemble Instrument Techniques (2)
 MUSIC 73B, Intermediate Percussion Ensemble (2)
 MUSIC 74, Orchestra (2)
 MUSIC 76, Intermediate Brass, Woodwinds, and Percussion (2)
 MUSIC 77, Wind Ensemble (2)
 MUSIC 78, Jazz Ensemble (2)
 MUSIC 79A, Jazz Improvisation (2)
 MUSIC 84A, Popular Guitar, First Level (2)
 MUSIC 84B, Popular Guitar, Second Level (2)
 MUSIC 84C, Popular Guitar, Third Level (3)
 MUSIC 87A, Classical and Flamenco Guitar, First Level (2)
 MUSIC 87B, Classical and Flamenco Guitar, Second Level (2)
 MUSIC 92, Applied Music Instruction (2) – four semesters
 MUSIC 94, Concert Music Class (1) – four semesters
 TH ART 45, Musical Theatre Workshop (3) (*same as MUSIC 45*)

*If not used above.

Nursing – Registered Nurse

This program prepares students to meet the standards of the California Board of Registered Nursing. The program is approved by the California Board of Registered Nursing and accredited by the Accreditation Commission of Education in Nursing. Upon completion of the program, graduates receive an Associate in Science degree and are eligible to take the National Council Licensure Examination (NCLEX) to become a Registered Nurse.

Students seeking admission to the Nursing program MUST meet the following criteria:

- An overall grade point average of 2.5 for the Human Anatomy, Human Physiology, and Microbiology prerequisite courses, taken in the last 5 years, with no grade less than C for each course.
- Only one repetition (excluding W) in the group of science prerequisite courses (Anatomy, Physiology, and Microbiology) is allowed within the last 5 years at the time of application.
- College-level English composition class (minimum 3 semester units) with a grade no less than C;
- Be in good standing at Santa Monica College (not on academic or lack-of-progress probation);
- Meet the minimum physical qualifications and essential functions (*more information at smc.edu/nursing*);
- Must have negative criminal background check and drug screening;
 - Persons who have been convicted of misdemeanor or felony may not qualify for licensure to practice nursing in California.
- Must take and achieve the required score on an Admission Assessment; and
- Must have a valid Social Security Number or a valid Individual Tax Identification Number.

Please visit the Nursing website (*smc.edu/nursing*) for additional application and admission information.

The estimated cost of the entire Nursing Program over two years is \$4,000 – \$5,000. Students should be prepared to spend approximately \$1,000 the first semester for books, equipment, uniforms, and tuition. For additional information, please visit smc.edu/nursing.

Programs Offered:

- Transfer Preparation
- Nursing Associate Degree (ADN)

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

NURSING (ADN), ASSOCIATE DEGREE

Program Learning Outcomes: Students who complete the Nursing program will use theoretical concepts of leadership and management to administer and design plans of care that integrate knowledge and skills pertinent to the role of manager of care of a group of patients and members of the health care team. Graduates will also utilize delegation, priority-setting skills, and knowledge of legal-ethical issues and health care delivery systems to design and coordinate a plan of nursing care for a group of patients.

All prerequisites to the Nursing Program must be completed prior to application and posted on transcript.

Prerequisite Requirements (16 units)

- ENGL 1, Reading and Composition 1 (3)
- ANATMY 1, General Human Anatomy (4)
- PHYS 3, Human Physiology (4)
- MCRBIO 1, Fundamentals of Microbiology (5)

No online lab components are accepted.

Graduation Major Requirements:

These requirements can be completed prior to application:

- NURSNG 17, Pharmacological Aspects of Nursing (3)
(Prerequisite: Physiology 3)
- NURSNG 36, Calculations in Drugs and Solutions (1)
- COM ST 11, Elements of Public Speaking (3) (*COM ST 11 completed summer 2013 or later*)

or

- COM ST 35, Interpersonal Communication (3)
- PSYCH 19, Lifespan Human Development (3)

All courses in the approved nursing curriculum must be passed with a minimum "C" grade to remain in the program, progress to the next course, graduate, and apply for licensure.

General Education Requirements:

Nursing students who earned a Bachelor degree or higher at a U.S. regionally accredited institution are not required to complete the Associate Degree general education requirements below.

- Social Science – Group A (3)
- Humanities (3)
- Rationality (3)
- Global Citizenship (3)

Note: Many Global Citizenship courses are also in GE areas and can be used to satisfy both; refer to Associate Degree General Education Requirements.

SMC ADN requirements must be successfully completed prior to graduation.

Required Nursing Courses: (40 units)

FIRST SEMESTER

- NURSNG 1, Fundamentals of Nursing Concepts 1 (2)
- NURSNG 1L, Fundamentals of Nursing Concepts 1 Lab (2.5)
- NURSNG 36, Calculations in Drugs And Solutions (1)
- NURSNG 2, Fundamentals of Nursing Concepts 2 (2.5)
- NURSNG 2L, Fundamentals of Nursing Concepts 2 Lab (2.5)

SECOND SEMESTER

- NURSNG 3, Adult Health Nursing Concepts 1 (2.5)
- NURSNG 3L, Adult Health Nursing Concepts 1 Lab (2.5)
- NURSNG 17, Pharmacological Aspects of Nursing (3)
- NURSNG 4, Mental Health Nursing Concepts (1.5)
- NURSNG 4L, Mental Health Concepts Lab (1.5)

THIRD SEMESTER

- NURSNG 5, Adult Health Nursing Concepts 2 (2.5)
- NURSNG 5L, Adult Health Nursing Concepts 2 Lab (2.5)
- NURSING 6, Maternal Newborn Nursing Concepts (1.5)
- NURSING 6L, Maternal Newborn Nursing Concepts Lab (1)
- NURSING 7, Pediatric Nursing Concepts (1.5)
- NURSING 7L, Pediatric Nursing Concepts Lab (1)

FOURTH SEMESTER

- NURSNG 8, Adult Health Nursing Concepts 3 (2.5)
- NURSNG 8L, Adult Health Nursing Concepts 3 Lab (2.5)
- NURSNG 9, Nursing Leadership Concepts (1.5)
- NURSNG 9L, Nursing Leadership Concepts Lab (2)

Nutrition and Dietetics

SMC's Nutrition and Dietetics program prepares individuals to integrate and apply the principles of the food and nutrition sciences, human behavior, and the biomedical sciences to design and manage effective nutrition programs, and utilize food for human growth in a variety of settings including health care organizations, food service operations, business and industry (product development, marketing, consulting), education and research, health promotion, and private practice counseling. The program examines human nutritional requirements, chemicals and nutrients in food, and how nutrients function and affect the body and overall health. Careers include: nutritionist, nutrition educator, weight loss counselor, diet technician, food services manager, patient services manager, dietician, pediatric dietician, nutrition researcher, sports and cardiac rehabilitation

dietician, nutrition consultant, diabetes educator, and many others.

The Associate degree track may be completed in two years and consists of a core of liberal arts, nutrition, and science courses. The support courses in the curriculum pattern allow the student to explore special interests that are related to their personal/professional goals/interests.

Programs Offered:

- Transfer Preparation
- Nutrition and Dietetics Associate Degree for Transfer
Students may satisfy the requirements of this degree with approved courses (which may be fewer units) taken at other California Community Colleges. The courses listed below are SMC courses. If completed entirely at SMC, the academic path requires 27 units.

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

University of California

SMC offers the **Nutrition and Dietetics Associate Degree for Transfer**. Students completing this degree are eligible for priority transfer admission consideration in the majors at many **California State University** campuses. In addition, students will be required to complete no more than 60 semester/90 quarter CSU units of coursework after transfer to complete the baccalaureate degree.

NOTE: Students considering transfer to a UC, private, or out-of-state school should consult a counselor BEFORE applying to transfer, as the transfer requirements may be different from those required for the Nutrition and Dietetics AS-T.

The most current list of CSU campuses accepting this Associate Degree for Transfer is available online at calstate.edu/transfer/adt-search/search.shtml

NUTRITION AND DIETETICS, ASSOCIATE DEGREE FOR TRANSFER

The Associate in Science in Nutrition and Dietetics for Transfer (AS-T) involves the understanding of nutrient metabolism and the relationship to optimal health including prevention of degenerative diseases. The course of study provides an integrated curriculum of nutrition coursework along with a solid background in the human body, chemical function and metabolism of nutrients, and the sociological implications of food and behavior. Throughout the degree students will acquire and develop knowledge and skills that will provide a solid background in nutrition so that students can make informed decisions on their personal health.

Upon completion of the Associate in Science in Nutrition and Dietetics for Transfer (AS-T), students will have a strong academic foundation in the field and be prepared for upper-division baccalaureate study. Completion of the degree indicates that the student will have satisfied the lower-division requirements for transfer into a Nutrition and Dietetics program for many campuses in the California State University system.

Program Learning Outcomes: Upon completion of the program, students will demonstrate a comprehensive knowledge of the relationship of nutrients and lifestyle factors and the associated risk of degenerative diseases. Students will demonstrate knowledge of physiological processes such as digestion, absorption, transport and metabolism of nutrients. Students will also be able to recognize and separate scientifically supported information from misinformation, and identify ways in which social factors influence food related choices, practices and beliefs.

Required Core Courses:

- NUTR 1, Introduction to Nutrition Science (3)
- CHEM 11, General Chemistry I (5)
- MCRBIO 1, Fundamentals of Microbiology (5)
- PSYCH 1, General Psychology (3)

LIST A: Select any two (2) courses from the list below (8 units minimum):

- ANATMY 1, Human Anatomy (4)
- CHEM 21, Organic Chemistry I (5)
- MATH 54, Elementary Statistics (4)

LIST B (minimum of 3 units):

Any course from List A not used above or one of the following:

- NUTR 3, Introduction to the Dietetics Profession (1)
- NUTR 7, Food and Culture in America (3)
- NUTR 8, Principles of Food with Lab (3)
- ACCTG 2, Corporate Financial and Managerial Accounting (5)
- ANTHRO 2, Cultural Anthropology (3)
- BIOL 3, Fundamentals of Biology (4)
- BIOL 21, Cell Biology and Evolution (4)
- BIOL 22, Genetics and Molecular Biology (4)
- BIOL 23, Organismal and Environmental Biology (5)
- BUS 5, Business Law and the Legal Environment (3)
- BUS 6, Advanced Business Law (3) *(formerly same as ACCTG 26)*
- CHEM 10, Introductory General Chemistry (5)
- CHEM 12, General Chemistry II (5)
- CHEM 22, Organic Chemistry II (4)
- CHEM 24, Organic Chemistry II Laboratory (2)
- CHEM 31, Biochemistry I (5)
- COM ST 11, Elements of Public Speaking (3)
- COM ST 21, Argumentation (3)
- CIS 4, Business Information Systems with Applications (3)
- ECON 1, Principles of Microeconomics (3)
- ECON 2, Principles of Macroeconomics (3)
- ENGL 1, Reading and Composition 1 (3)
- ENGL 2, Critical Analysis and Intermediate Composition (3)
- ENGL 31, Advanced Composition (3)
- HEALTH 10, Fundamentals of Healthful Living (3)
- HIST 47, The Practice of History (3)
- JOURN 1, The News (3)
- MATH 2, Precalculus (5)

MATH 7, Calculus 1 (5)
 MATH 8, Calculus 2 (5)
 MATH 28, Calculus 1 for Business and Social Science (5)
 MEDIA 1, Survey of Mass Media Communications (3)
 PHYSCS 6, General Physics 1 with Lab (4)
 PHYSCS 7, General Physics 2 with Lab (4)
 PHYSCS 8, Calculus-based General Physics 1 with Lab (4)
 PHYSCS 9, Calculus-based General Physics 2 with Lab (4)
 POL SC 1, American and California Politics (3)
 PSYCH 19, Lifespan Human Development (3)
 SOCIOL 1, Introduction to Sociology (3)
 SOCIOL 1s, Introduction to Sociology – Service Learning (3)

Office Technology

Office workers are responsible for a variety of administrative and clerical duties necessary to run and maintain organizations efficiently. They use a variety of software, produce correspondence, maintain databases, manage projects, as well as organize meetings, manage records, and schedule appointments. Office workers find employment in a variety of settings, such as corporations, government agencies, schools, and hospitals. Some related job titles include office assistant, administrative assistant, executive assistant, and data entry/clerical.

Programs Offered:

- General Office Associate Degree
- Legal Administrative Assistant Associate Degree
- Medical Administrative Assistant Associate Degree
- Medical Coding and Billing Specialist Associate Degree
- General Office Certificate of Achievement (27 units)
- Legal Administrative Assistant Certificate of Achievement (27 units)
- Legal Office Clerk Certificate of Achievement (12 units)
- Medical Administrative Assistant Certificate of Achievement (33 units)
- Medical Coding and Billing Specialist Certificate of Achievement (36 units)
- Medical Office Clerk Certificate of Achievement (12 units)
- Clerical/Data Entry Department Certificate (12 units)
- Electronic Medical Records Clerk Department Certificate (9 units)
- Hospital Inpatient Coder Department Certificate (9 units)
- Medical Billing/Coding Department Certificate (15 units)
- Medical Records Clerk/Receptionist Department Certificate (15 units)
- Medical Transcription Department Certificate (15 units)

GENERAL OFFICE, ASSOCIATE DEGREE OR CERTIFICATE OF ACHIEVEMENT

This program provides training in common skills used in the business office: keyboarding, computer applications, English, accounting, and business communications. General office workers obtain employment in many environments: corporate settings, government facilities, schools, and hos-

pitals. Related job titles include administrative assistant, executive assistant, executive secretary, office assistant, and secretary. After gaining some work experience or specialized skills, many workers transfer to jobs with higher pay or greater advancement potential.

Program Learning Outcomes: Using skills in Microsoft Office software, keyboarding, and English language principles, the student will create and revise commonly used business documents. Given transaction data, the student will perform basic bookkeeping/accounting tasks, such as classifying, recording, and preparing financial documents.

Required Courses: (24 units)

ACCTG 1, Introduction to Financial Accounting (5)

or

ACCTG 21, Business Bookkeeping (3)

BUS 32, Business Communications (3)

CIS 1, Introduction to Computer Information Systems (3)

CIS 4, Business Information Systems with Applications (3)

CIS 30, Microsoft Excel (3)

CIS 37, Microsoft Word (3)

CIS 39, MS Outlook – Comprehensive Course (3)

OFTECH 5, English Skills for the Office (3)

Select 3 units from the following:

OFTECH 1, Keyboarding I (3)

OFTECH 1A, Keyboarding 1A (1)

OFTECH 1B, Keyboarding 1B (1)

OFTECH 1C, Keyboarding 1C (1)

OFTECH 9, Keyboarding Improvement (1)

OFTECH 10, Skill Building on the Keyboard (3)

Additional general education and graduation requirements for the Associate degree from Santa Monica College are listed in the Academics section of this catalog, as well as online (go to smc.edu/articulation).

LEGAL ADMINISTRATIVE ASSISTANT, ASSOCIATE DEGREE OR CERTIFICATE OF ACHIEVEMENT

Legal administrative assistants perform the administrative tasks in a law office, such as answering the telephone, managing files, preparing law office correspondence and legal documents, and maintaining the calendar. Legal administrative assistants are in great demand. Qualified legal administrative assistants who have strong skills can find lucrative opportunities with law firms and corporate legal departments, government agencies, and a variety of business and industries — such as banks, insurance companies, investment firms, and real estate companies. This program prepares students to pursue employment as a legal administrative assistant. Training is provided in legal terminology, law office procedures, legal research, computer technology, machine transcription and document preparation, keyboarding, and written and verbal communication.

Program Learning Outcomes: Upon completion of the program, using transcription equipment, word processing software, and legal terminology skills, students will prepare legal documents that represent correct format, spelling, punctuation, capitalization, and number usage. Applying knowledge of law office procedures, students will demon-

strate skills in workplace telecommunications, office and court calendaring, billing procedures, and filing systems.

Required Courses: (24 units)

BUS 5, Business Law and the Legal Environment (3)
 CIS 4, Business Information Systems with Applications (3)
 CIS 30, Microsoft Excel (3)
 CIS 37, Microsoft Word (3)
 CIS 39, MS Outlook – Comprehensive Course (3)
 OFTECH 5, English Skills for the Office (3)
 OFTECH 30, Legal Office Procedures (3)
 OFTECH 31, Legal Terms and Transcription (3)

Select 3 units from the following:

OFTECH 1, Keyboarding I (3)
 OFTECH 1A, Keyboarding 1A (1)
 OFTECH 1B, Keyboarding 1B (1)
 OFTECH 1C, Keyboarding 1C (1)
 OFTECH 9, Keyboarding Improvement (1)
 OFTECH 10, Skill Building on the Keyboard (3)

LEGAL OFFICE CLERK, CERTIFICATE OF ACHIEVEMENT

Legal office clerks perform basic support tasks in a law office. This entry level position includes responsibilities such as producing correspondence, performing receptionist duties, answering telephones, filing, and managing calendars. The Legal Office Clerk Certificate provides training in computer technology, legal office procedures, legal terminology, machine transcription, English skills, and keyboarding. With experience, legal office clerks may advance to administrative assistants and office managers.

Program Learning Outcomes: Upon completion of the program, students will demonstrate knowledge of legal terminology, English skills, computer technology, machine transcription, and keyboarding. Students will prepare legal documents. Applying knowledge of legal office procedures, students will demonstrate skills in court calendaring, billing procedures, and filing systems.

Required Courses:

CIS 4, Business Information Systems with Applications (3)
 OFTECH 5, English Skills for the Office (3)
 OFTECH 30, Legal Office Procedures (3)
 OFTECH 31, Legal Terms and Transcription (3)

MEDICAL ADMINISTRATIVE ASSISTANT, ASSOCIATE DEGREE OR CERTIFICATE OF ACHIEVEMENT

This program prepares students for employment in a medical environment. Students develop skills and knowledge to perform a variety of duties to aid in the efficient workflow and operations of a medical related facility. Coursework indicates medical terminology, computer technology, medical law and ethics, and “front office” tasks — such as patient scheduling, reception, coding and billing, transcription, and records management.

Program Learning Outcomes: Upon completion of the program, using knowledge of front office tasks, students will use appropriate procedures related to reception, telephone communications, and records management. Applying computer technology skills, medical terminology skills, and language skills, students will prepare correspondence, produce

medical transcripts, and perform tasks related to patient coding and billing.

Required Courses: (30 units)

CIS 4, Business Information Systems with Applications (3)
 CIS 37, Microsoft Word (3)
 CIS 39, MS Outlook – Comprehensive Course (3)
 OFTECH 5, English Skills for the Office (3)
 OFTECH 20, Medical Vocabulary (3)
 OFTECH 21, Medical Terms and Transcription 1 (3)
 OFTECH 23, Medical Billing (Medisoft) (3)
 OFTECH 24, Medical Coding/Billing 1 (3)
 OFTECH 27, Medical Office Procedures (3)
 OFTECH 28, Electronic Health Records (3)

Select 3 units from the following:

OFTECH 1, Keyboarding I (3)
 OFTECH 1A, Keyboarding 1A (1)
 OFTECH 1B, Keyboarding 1B (1)
 OFTECH 1C, Keyboarding 1C (1)
 OFTECH 9, Keyboarding Improvement (1)
 OFTECH 10, Skill Building on the Keyboard (3)

MEDICAL CODING AND BILLING SPECIALIST, ASSOCIATE DEGREE OR CERTIFICATE OF ACHIEVEMENT

Medical Coding and Billing Specialists are primarily responsible for submitting documentation of patient medical care to insurance companies. Duties include billing insurance companies and patients; collecting payment for services; and documenting tests, treatments, and procedures, using correct medical terminology — referred to as “coding.” This program provides the training that is required to perform these duties.

Program Learning Outcomes: Upon completion of this program, applying knowledge of diagnostic and procedural codes, students will review patients’ medical records and assign appropriate codes for reimbursement and billing purposes. Using a computerized patient billing system, students will enter patient and case information, process transactions and claims, create statements, and produce reports.

Required Courses: (33 units)

ANATMY 1, General Human Anatomy (4)
or
 BIOL 2, Human Biology (3)

 CIS 4, Business Information Systems with Applications (3)
 CIS 30, Microsoft Excel (3)
 OFTECH 5, English Skills for the Office (3)
 OFTECH 20, Medical Vocabulary (3)
 OFTECH 23, Medical Billing (Medisoft) (3)
 OFTECH 24, Medical Coding/Billing 1 (3)
 OFTECH 25, Medical Coding/Billing 2 (3)
 OFTECH 26, Medical Coding/Billing 3 (3)
 OFTECH 27, Medical Office Procedures (3)
 OFTECH 28, Electronic Health Records (3)

Select 3 units from the following:

OFTECH 1, Keyboarding I (3)
 OFTECH 1A, Keyboarding 1A (1)
 OFTECH 1B, Keyboarding 1B (1)
 OFTECH 1C, Keyboarding 1C (1)

OFTECH 9, Keyboarding Improvement (1)
OFTECH 10, Skill Building on the Keyboard (3)

MEDICAL OFFICE CLERK, CERTIFICATE OF ACHIEVEMENT

The Medical Office Clerk Certificate prepares students to perform common tasks in a medical workplace. Students develop skills in medical terminology, medical office procedures, and basic medical coding and billing principles.

Program Learning Outcomes: Upon completion of the program, students will demonstrate knowledge of medical office procedures, HIPAA, patient admissions and discharges, and appropriate telephone and scheduling procedures. Using knowledge of medical terminology and coding/billing procedures, students will demonstrate an understanding of billing, reimbursement, and collection procedures.

Required Courses:

CIS 4, Business Information Systems with Applications (3)
OFTECH 20, Medical Vocabulary (3)
OFTECH 24, Medical Coding/Billing 1 (3)
OFTECH 27, Medical Office Procedures (3)

CLERICAL/DATA ENTRY, DEPARTMENT CERTIFICATE

Organizations need to process a rapidly growing amount of information. Data entry workers help ensure the efficient handling of information processing. Duties include inputting data into computers and performing editing, proofreading, and clerical tasks. This certificate program provides training in the essential skills to carry out these tasks. Job opportunities exist in part-time, full-time, and work-at-home positions. Data entry workers are known by various job titles, such as data entry clerk, data entry operator, data entry specialist, and clerk. Data entry jobs frequently serve as stepping stones to higher paying positions with increased responsibilities.

Program Learning Outcomes: Using source materials, the student will use Microsoft Word, Excel, Access, and PowerPoint software to input data. Applying knowledge of grammar, punctuation, vocabulary, and spelling principles, the student will proofread and correct data input.

Required Courses: (9 units)

CIS 4, Business Information Systems with Applications (3)
CIS 37, Microsoft Word (3)
OFTECH 5, English Skills for the Office (3)

Select 3 units from the following:

OFTECH 1, Keyboarding I (3)
OFTECH 1A, Keyboarding 1A (1)
OFTECH 1B, Keyboarding 1B (1)
OFTECH 1C, Keyboarding 1C (1)
OFTECH 9, Keyboarding Improvement (1)
OFTECH 10, Skill Building on the Keyboard (3)

ELECTRONIC MEDICAL RECORDS CLERK, DEPARTMENT CERTIFICATE

This program prepares students for entry-level clerical positions involving electronic health records (EHR). Training is provided in computer basics, medical terminology, and electronic records technology. EHR clerks work in hospitals,

physicians' offices, and nursing homes — typically under the direction of a manager or supervisor.

Program Learning Outcomes: Upon completion of the program, students will be able to capture and store patient data into an EHR (Electronic Health Records) system. Using EHR software, students will document patient encounters and process physician orders in an electronic system.

Required Courses: (9 units)

CIS 4, Business Information Systems with Applications (3)
OFTECH 20, Medical Vocabulary (3)
OFTECH 28, Electronic Health Records (3)

HOSPITAL INPATIENT CODER, DEPARTMENT CERTIFICATE

Coding is the transformation of healthcare diagnoses, procedures, medical services, and equipment into universal medical alphanumeric codes for statistical reporting and reimbursement purposes. A hospital inpatient coder reviews and codes information for patients who stay at least overnight in a hospital facility. This certificate program provides training in medical terminology, inpatient coding, and billing, reimbursement, and collection procedures.

Program Learning Outcomes: Upon completion of the program, students will demonstrate knowledge of medical terminology and correctly code inpatient facility services and diagnoses. Using knowledge of billing principles, students will demonstrate an understanding of billing, reimbursement, and collection procedures.

Required Courses: (9 units)

OFTECH 20, Medical Vocabulary (3)
OFTECH 25, Medical Coding/Billing 2 (3)
OFTECH 26, Medical Coding/Billing 3 (3)

MEDICAL BILLING/CODING, DEPARTMENT CERTIFICATE

Medical billing/coding workers are primarily responsible for submitting documentation of patient medical care to insurance companies. Duties include billing insurance companies and patients; collecting payment for services; and documenting tests, treatments and procedures, using correct medical terminology – referred to as “coding”. The Medical Billing/Coding Certificate program provides the training that is required to perform these duties.

Program Learning Outcomes: Applying knowledge of diagnostic and procedural codes, the student will review patients' medical records and assign appropriate codes for reimbursement and billing purposes. Using a computerized patient billing system, the student will enter patient and case information, process transactions and claims, create statements, and produce reports.

Required Courses: (12 units)

CIS 30, Microsoft Excel (3)
OFTECH 20, Medical Vocabulary (3)
OFTECH 23, Medical Billing (Medisoft) (3)
OFTECH 24, Medical Coding/Billing 1 (3)

Select 3 units from the following:

OFTECH 1, Keyboarding I (3)
OFTECH 1A, Keyboarding 1A (1)
OFTECH 1B, Keyboarding 1B (1)
OFTECH 1C, Keyboarding 1C (1)

- OFTECH 9, Keyboarding Improvement (1)
OFTECH 10, Skill Building on the Keyboard (3)

MEDICAL RECORDS CLERK/RECEPTIONIST, DEPARTMENT CERTIFICATE

This program is ideal for students who want to learn the basic skills needed to become employed in a healthcare setting. This certificate prepares students for entry-level records management/receptionist positions in hospitals, nursing homes, physician offices, and service agencies. Coursework includes training in storing, retrieving, and maintaining medical records; front desk procedures; medical vocabulary; computer technology; keyboarding; and written and verbal communications. With experience and additional education, medical records clerk/receptionists may advance to senior clerks, registered health information technicians (RHITs), registered health information administrators (RHIAAs), consultants, and educators.

Program Learning Outcomes: Upon completion of this program, using knowledge of recordkeeping systems, students will organize and retrieve patient records using alphabetic, numeric, and color-coded systems. Applying knowledge of front desk procedures, students will demonstrate knowledge of appropriate telephone skills and face-to-face communications.

Required Courses: (12 units)

- CIS 4, Business Information Systems with Applications (3)
OFTECH 5, English Skills for the Office (3)
OFTECH 20, Medical Vocabulary (3)
OFTECH 27, Medical Office Procedures (3)

Select 3 units from the following:

- OFTECH 1, Keyboarding I (3)
OFTECH 1A, Keyboarding 1A (1)
OFTECH 1B, Keyboarding 1B (1)
OFTECH 1C, Keyboarding 1C (1)
OFTECH 9, Keyboarding Improvement (1)
OFTECH 10, Skill Building on the Keyboard (3)

MEDICAL TRANSCRIPTION, DEPARTMENT CERTIFICATE

This program prepares students to listen to dictated recordings made by physicians and other healthcare professionals and transcribe them into medical reports, correspondences, and other administrative material. Medical transcription is a particularly flexible career that easily lends itself to many different work styles. Medical transcriptionists work in hospitals, physicians' offices, transcription service offices, clinics, laboratories, and at home. With experience, medical transcriptionists can advance to supervisory positions, home-based work, editing, or consulting.

Program Learning Outcomes: Using transcription equipment and word processing software, the student will prepare medical documents that represent correct format, spelling, capitalization, number usage, punctuation, abbreviations, symbols, and metric measurement rules. In the preparation of medical documents, the student will use a variety of reference resources.

Required Courses: (12 units)

- OFTECH 5, English Skills for the Office (3)
OFTECH 20, Medical Vocabulary (3)

- OFTECH 21, Medical Terms and Transcription 1 (3)
OFTECH 22, Medical Terms and Transcription 2 (3)

Select 3 units of the following:

- OFTECH 1, Keyboarding I (3)
OFTECH 1A, Keyboarding 1A (1)
OFTECH 1B, Keyboarding 1B (1)
OFTECH 1C, Keyboarding 1C (1)
OFTECH 9, Keyboarding Improvement (1)
OFTECH 10, Skill Building on the Keyboard (3)

Persian

See Modern Languages

Philosophy

Programs in philosophy are designed to develop the reasoning skills needed to understand and evaluate beliefs about man, society, reality, knowledge, truth, values, etc. Skills in thinking and problem solving, research, writing, criticism, and analysis are emphasized. Philosophy programs provide a background for fields such as law, theology, journalism, business, or public service. Some students earn graduate degrees to become college philosophy teachers.

Programs Offered:

- Transfer Preparation
- See also Liberal Arts – Arts and Humanities

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

The **University of California system has a transfer pathway** for any UC campus that offers Philosophy. For more information, visit pathwaysguide.universityofcalifornia.edu

Photography

The Photography program teaches the dynamics of visual communication to illustrate ideas, record events, articulate stories, express moods, sell products, and interpret a person's character. Courses stress technical knowledge, proficiency in camera control, digital and analog capture methods, artificial light control, and image manipulation. This program prepares students for careers in photography-related genres, including advertising photography, food photography, architectural photography, editorial photography, portrait photography, fashion photography, and photojournalism.

High school students in the 11th and 12th grades may begin this program concurrently with their high school program if approved by the high school principal.

Information regarding the Photography program is available on the Photography Department's website (smc.edu/photo) and by calling the Photography Department at 310-434-3547.

Programs Offered:

- Transfer Preparation
- Photography Associate Degree
- Photography Certificate of Achievement (40 units)

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

PHOTOGRAPHY, ASSOCIATE DEGREE OR CERTIFICATE OF ACHIEVEMENT

Program Learning Outcomes: Students completing the program in Photography will analyze and assess photographic situations and solve technical problems and creative challenges as they arise in a photographic production. Students will design and construct photographic images that can communicate ideas or narratives effectively for commercial, editorial, or fine art purposes. Graduates will also have the knowledge and skills pertinent to the successful operation of a freelance photography business and sound business practices in the trade.

Required Courses: (32 units)

- PHOTO 1, Introduction to Photography (3)
- PHOTO 2, Basic Black and White Darkroom Techniques (2)
- PHOTO 5, Digital Asset Management, Modification, and Output (3)
- PHOTO 30, Techniques of Lighting: Introduction (4)
-
- PHOTO 31, Lighting for People 1 (4)
- or*
- PHOTO 32, Lighting for People 2 (4)
-
- PHOTO 33, Lighting for Products (4)
- PHOTO 39, Beginning Photoshop (3)
- PHOTO 43, Portfolio Development (3)
- PHOTO 52, History of Photography (3) (*same as AHIS 52*)
- PHOTO 60, Business Practices in Photography (3)

AREA A: Restricted Photography Electives; Select any one of the following courses listed below: (5 units) [Please note that no more than 2 units of Independent Study (PHOTO 88A-88C) and no more than 3 units of Internship (PHOTO

90A-90D) may be used to satisfy completion of this area.]

- GR DES 31, Graphic Design Studio 1 (2)
- PHOTO 7, Advanced Portfolio Development (3)
- PHOTO 13, News Photography (3) (*same as JOURN 21*)
- PHOTO 14, Photography for Publication (3) (*same as JOURN 22*)
- PHOTO 21, Alternative Photographic Processes (3)
- PHOTO 29, Video Production for Still Photographers (3)
- PHOTO 31, Lighting for People 1 (4)
- PHOTO 32, Lighting for People 2 (4)
- PHOTO 34, Capture to Composite (4)
- PHOTO 37, Advanced Black and White Printing Techniques (3)
- PHOTO 40, Digital Techniques (3)
- PHOTO 42, Advanced Photoshop (3)
- PHOTO 50, Basic Color Printing (3)
- PHOTO 64, Community Documentary Photography (4)
- PHOTO 88A, Independent Studies in Photography (1)
- PHOTO 88B, Independent Studies in Photography (2)
- PHOTO 88C, Independent Studies in Photography (3)
- PHOTO 90A, Photography Internship (1)
- PHOTO 90B, Photography Internship (2)
- PHOTO 90C, Photography Internship (3)
- PHOTO 90D, Photography Internship (4)

AREA B: Restricted Electives; Select 1 course from the following: (3 units)

- ART 10A, Design I (3)
- ART 10C, Digital Media (3)
- ART 20A, Drawing I – Introduction to Drawing (3)
- BUS 22, Introduction to Advertising (3)
- BUS 34A, Introduction to Digital Marketing (3) (*formerly BUS 34*)
- BUS 63, Principles of Entrepreneurship (3)

Photovoltaic Installation (Solar Energy Installation)

Solar energy systems are being installed in growing numbers at businesses and private residences. This growing demand is expected to increase the need for many new jobs and business opportunities in solar photovoltaic and thermal system design and installation, energy efficiency auditing, and Zero Net Energy (ZNE) homes and buildings. The program is designed to provide students with both the hands-on skills and the broader contextual knowledge necessary to gain successful employment in the burgeoning alternative energy industry. Students who complete this program will be qualified for jobs in a variety of different capacities including: PV installation, repairs, maintenance, solar design, and energy efficient auditing. With additional education and/or experience, students could pursue employment with one of the many public institutions working on alternative energy policy and ZNE homes, and/or could potentially start their own energy audit, energy management, solar design, or solar installation company.

Programs Offered:

- Solar Photovoltaic and Energy Efficiency Associate Degree
- Solar Photovoltaic Installation Certificate of Achievement (14 units)

- Basic Solar Photovoltaic Installation Department Certificate (8 units)
- See also Energy Efficiency

SOLAR PHOTOVOLTAIC AND ENERGY EFFICIENCY, ASSOCIATE DEGREE

Solar energy systems are being installed in growing numbers at businesses and private residences. This growing demand is expected to increase the need for many new jobs and business opportunities in solar photovoltaic and thermal system design and installation, energy efficiency auditing, and Zero Net Energy (ZNE) homes and buildings. The program provides students with both the hands-on skills and the broader contextual knowledge necessary to gain successful employment in the burgeoning alternative energy industry. Students who complete this program will be qualified for jobs in a variety of different capacities including: PV installation, repairs, maintenance, solar design, and energy efficient auditing. With additional education and/or experience, students could pursue employment with one of the many public institutions working on alternative energy policy and Zero Net Energy (ZNE) homes, and/or could potentially start their own energy audit, energy management, solar design, or solar installation company.

This program prepares students to take the NABCEP (North American Board of Certified Energy Practitioners) Associate Exam and — with adequate job experience — the NABCEP Professional exam.

Program Learning Outcomes: Upon completion of the program, students will demonstrate proficiency in basic terminology (solar radiation, solar irradiance, solar insolation, solar constant, solstice, equinox, solar altitude angle, solar azimuth angle, solar incidence angle) Students will be able to explain how a solar cell converts sunlight into electrical power and distinguish between PV cells, modules, panels and arrays. Students will be able to identify the five key electrical output parameters for PV modules using manufacturers' literature (Voc, Isc, Vmp, Imp, and Pmp) and label points on a current-voltage (I-V) curve, as well as identify and apply regulatory codes when conducting energy assessments and/or site visits. Students will be able to recognize and identify local and state energy efficiency requirements/incentives for new and existing buildings; conduct Energy Utilization Analysis; and recognize mechanics and engineering of energy systems, including HVAC, lighting, and renewable energy systems.

Required Photovoltaic Courses:

- PV 11, Introduction to Solar Photovoltaics (3)
- PV 12, Photovoltaic Installation Exam Preparation (2)

Required Energy Efficiency Courses:

- ENERGY 1, Introduction to Energy Efficiency (3)
- ENERGY 2, Residential Building Science (3)
- ENERGY 90A, Energy Efficiency Internship (1)

Required Computer-Based Courses:

- ARC 21, Digital Communication 2 (3) (*formerly INTARC 28A/INTARC 35*)

or

- GEOG 20, Introduction to Geographic Information Systems (3) (*same as GIS 20*)

Required Support Courses: Select 1 of the following: (3 units)

- BIOL 9, Environmental Biology (3)
- BUS 63, Principles of Entrepreneurship (3)

- ENVRN 7, Introduction to Environmental Studies (3) (*same as GEOG 7*)
- ENVRN 20, Environmental Ethics (3) (*same as PHILOS 20*)
- ENVRN 22, Environmental Politics and Policies (3) (*same as POL SC 22*)
- ENVRN 40, Environmental Psychology (3) (*same as PSYCH 40*)

SOLAR PHOTOVOLTAIC INSTALLATION, CERTIFICATE OF ACHIEVEMENT

Solar energy systems are being installed in large numbers by utilities, businesses, and homes. This growing demand is increasing the need for many skilled workers in photovoltaic (PV) installation, PV design, and solar sales. This program provides students with both the hands-on skills and the broader contextual knowledge necessary to gain successful employment in the solar industry. Students who complete this program will be qualified for jobs in a variety of different capacities including: PV installation, repairs, maintenance, mid-to-upper level solar design, and sales. With additional education and/or experience, students could pursue employment with one of the many public institutions working on alternative energy policy and zero net energy (ZNE) homes, and/or could potentially start their own solar installation company.

This program prepares students to take the NABCEP (North American Board of Certified Energy Practitioners) Associate Exam and — with adequate job experience — the NABCEP Professional exam.

Program Learning Outcomes: Students will demonstrate proficiency in basic terminology (solar radiation, solar irradiance, solar insolation, solar constant, solstice, equinox, solar altitude angle, solar azimuth angle, solar incidence angle, semiconductor, circuit, inverter). Students will be able to explain how a solar cell converts sunlight into electrical power and how power is conditioned for use in buildings. Students will be able to identify the five key electrical output parameters for the I-V curve. Student will have achieved a mastery of basic computer-based systems that either assist in design of solar production equipment (computer aided design or CAD) or aid in geographic analysis of renewable resources (geographic information systems or GIS). Students will be able to apply appropriate regulatory codes when conducting energy efficiency requirements for new and existing buildings. Student will be proficient in conducting an energy utilization index (EUI) analysis. Students will be able to recognize the physical properties that consume or produce energy in residential and commercial energy systems, including HVAC, lighting, and renewable energy systems.

Required Photovoltaic Courses:

- PV 11, Introduction to Solar Photovoltaics (3)
- PV 12, Photovoltaic Installation Exam Preparation (2)

Required Energy Efficiency Courses:

- ENERGY 1, Introduction to Energy Efficiency (3)

Required Computer-Based Courses:

- ARC 21, Digital Communication 2 (3) (*formerly INTARC 28A/INTARC 35*)

or

- GEOG 20, Introduction to Geographic Information Systems (3) (*same as GIS 20*)

Required Support Courses; Select 1 of the following (3 units):

- BIOL 9, Environmental Biology (3)
- BUS 63, Principles of Entrepreneurship (3)
- ENVRN 7, Introduction to Environmental Studies (3)
(*same as GEOG 7*)
- ENVRN 20, Environmental Ethics (3) (*same as PHILOS 20*)
- ENVRN 22, Environmental Politics and Policies (3)
(*same as POL SC 22*)
- ENVRN 40, Environmental Psychology (3) (*same as PSYCH 40*)

BASIC SOLAR PHOTOVOLTAIC INSTALLATION, DEPARTMENT CERTIFICATE

This program offers courses in basic solar photovoltaic systems and an introduction to energy and energy efficiency principles. The required courses are intended to prepare students for entry-level positions in the home energy services sector, including site analysis of solar electric systems, basic energy auditing, and calculation of energy use intensities. Students will also be prepared to help property owners reduce and manage power demand and energy consumption. The program provides a foundation for further study and preparation for the North American Board of Certified Energy Practitioner (NABCEP) Associate exam.

This program, along with further study, would prepare students for careers related to Zero Net Energy (ZNE) homes, green buildings, or for design- and/or sales-related positions in and related to the energy efficiency, renewable energy, and the solar power industry.

Program Learning Outcomes: Students will demonstrate proficiency in basic terminology (solar radiation, solar irradiance, solar insolation, solar constant, solstice, equinox, solar altitude angle, solar azimuth angle, semiconductor, circuit, inverter). Students will be able to explain how a solar cell converts sunlight into electrical power and how power is conditioned for use in buildings. Student will be proficient in conducting an energy utilization index (EUI) analysis. Students will be able to identify the salient concerns related to safe and efficient energy use in the built environment and the issues that threaten the ecological conditions on the planet related to energy production and use.

Required Photovoltaic Courses: (8 units)

- PV 11, Introduction to Solar Photovoltaics (3)
- PV 12, Photovoltaic Installation Exam Preparation (2)
- ENERGY 1, Introduction to Energy Efficiency (3)

Physics

Physicists study matter, energy, and the relationships between them and devise methods to apply laws and theories of physics to industry, medicine, and other fields. Some career titles include acoustic physicist, astrophysicist, engineer, satellite data analyst, and medical or nuclear physicist.

Programs Offered:

- Transfer Preparation
- See also Science: General Science

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year

college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

The **University of California system has a transfer pathway** for any UC campus that offers Physics. For more information, visit pathwaysguide.universityofcalifornia.edu

Physiology

See Biological Sciences

Political Science

Political scientists study the origin, development, and operation of political systems and public policy. Some study the actions of foreign governments, political parties, or revolutionary movements. Others analyze topics such as public opinion, decision making, or the uses of ideology and public policy. They may conduct surveys, analyze election results, review Supreme Court decisions, or actions of legislative bodies, or analyze the content of media articles. Some do academic research, write, or teach. Others work on applied problems for federal agencies, legislative committees, or individual office holders/seekers. Some career possibilities include lawyer, politician, and director of polling and survey projects.

Programs Offered:

- Transfer Preparation
- Political Science Associate Degree for Transfer
- See also Public Policy

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

The **University of California system has a transfer pathway** for any UC campus that offers Political Science. For more information, visit pathwaysguide.universityofcalifornia.edu

SMC offers the **Political Science Associate Degree for Transfer**. Students completing this degree are eligible for priority transfer admission consideration in the majors at

many **California State University** campuses. In addition, students will be required to complete no more than 60 semester/90 quarter CSU units of coursework after transfer to complete the baccalaureate degree.

NOTE: Students considering transfer to a UC, private, or out-of-state school should consult a counselor BEFORE applying to transfer, as the transfer requirements may be different from those required for the Political Science AA-T.

The most current list of CSU campuses accepting this Associate Degree for Transfer is available online at calstate.edu/transfer/adt-search/search.shtml

POLITICAL SCIENCE, ASSOCIATE DEGREE FOR TRANSFER

The Associate in Arts in Political Science for Transfer (AA-T) introduces students to the major fields of study in political science. The program includes the study of American politics (principles, institutions, and policies). Depending upon the student's chosen course of study, the program may also include comparative politics (institutional structures, processes, and political cultures), International Relations (structure and operation of the international system), and/or political philosophy (ideas about human nature, power, justice, and the state).

Upon completion of the Associate in Arts in Political Science for Transfer (AA-T), students will have a strong academic foundation in the field and be prepared for upper-division baccalaureate study. Completion of the degree indicates that the student will have satisfied the lower-division requirements for transfer into political science or similar majors for many campuses in the California State University system.

Program Learning Outcomes: Upon completion of the program, students will demonstrate, through written and oral academic work, an understanding of the principles, structure, and processes of the American political system, as well as, depending on the student's area of focus, an understanding of the institutional structures and processes of other countries, the structure and operation of international relations, and philosophic ideas about human nature, power, justice, and the state.

Required Core Course: (3 units)

POL SC 1, American and California Politics (3)

LIST A: Select 3 courses from the following: (9 units)

MATH 54, Elementary Statistics (4)

POL SC 2, Comparative Government and Politics (3)

POL SC 7, International Politics (3)

POL SC 51, Political Philosophy (3) (*same as PHILOS 51*)

LIST B: Select 2 courses from the following: (6 units)

Any course from List A not used above:

ECON 1, Principles of Microeconomics (3)

ECON 2, Principles of Macroeconomics (3)

ENGL 2, Critical Analysis and Intermediate Composition (3)

GEOG 2, Introduction to Human Geography (3)

GEOG 8, Introduction to Urban Studies (3) (*same as URBAN 8*)

GEOG 11, World Geography: Introduction to Global Studies (3) (*same as GLOBAL 11*)

HIST 1, History of Western Civilization I (3)

HIST 2, History of Western Civilization II (3)
HIST 10, Ethnicity and American Culture (3)
HIST 11, The United States Through Reconstruction (3)
HIST 12, The United States Since Reconstruction (3)
HIST 13, The United States Since 1945
HIST 14, U.S. Environmental History (3) (*same as ENVRN 14*)

PHILOS 1, Knowledge and Reality (3)

PHILOS 3, Early Philosophers (3)

PHILOS 4, Modern Philosophers (3)

PHILOS 7, Logic and Critical Thinking (3)

PHILOS 20, Environmental Ethics (3) (*same as ENVRN 20*)

PHILOS 48, Nonviolent Resistance (3)

POL SC 3, Introduction to Politics: Justice, Power and Agency (3)

POL SC 5, International Political Economy: Introduction to Global Studies (3) (*same as ECON 5 and GLOBAL 5*)

POL SC 8, The Modern Far East (3)

POL SC 10, Government Internships (3)

POL SC 11, World Affairs and the United States (3)

POL SC 14, Middle East Government and Politics (3)

POL SC 21, Race, Ethnicity, and the Politics of Difference (3)

POL SC 22, Environmental Politics and Policies (3) (*same as ENVRN 22*)

POL SC 23, Sex, Gender, and Power (3)

POL SC 31, Introduction to Public Policy (3)

POL SC 47, International Politics Seminar (3)

POL SC 52, Contemporary Political Thought (3) (*same as PHILOS 52*)

SOCIOL 1, Introduction to Sociology (3)

SOCIOL 1s, Introduction to Sociology – Service Learning (3)

SOCIOL 2, Social Problems (3)

SOCIOL 2s, Social Problems – Service Learning (3)

SOCIOL 30, African Americans in Contemporary Society (3)

SOCIOL 31, Latinas/os in Contemporary Society (3)

SOCIOL 32, Asian Americans in Contemporary Society (3)

SOCIOL 33, Sociology of Sex and Gender (3)

SOCIOL 34, Racial and Ethnic Relations in American Society (3)

or any course articulated as fulfilling CSU GE Area D

Portuguese

See Modern Languages

Professional Courses in Kinesiology/Physical Education

See Kinesiology/Physical Education

Psychology

The Associate in Arts in Psychology for Transfer (AA-T) involves the scientific study of human and animal behavior and mental processes, including cognition, emotion, sensa-

tion, perception, and interaction. The course of study provides students the opportunity to acquire skills in research, information gathering, analytical and critical thinking, problem solving, and written and verbal communication.

Programs Offered:

- Transfer Preparation
- Psychology Associate Degree for Transfer
Students may satisfy the requirements of this degree with approved courses (which may be fewer units) taken at other California Community Colleges. The courses below are SMC courses. If completed entirely at SMC, the academic path requires 19 units.

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org. A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

SMC offers the Psychology Associate Degree for Transfer. Students completing this degree are eligible for priority transfer admission consideration in the majors at many **California State University** campuses. In addition, students will be required to complete no more than 60 semester/90 quarter CSU units of coursework after transfer to complete the baccalaureate degree.

NOTE: Students considering transfer to a UC, private, or out-of-state school should consult a counselor BEFORE applying to transfer, as the transfer requirements may be different from those required for the Psychology AA-T.

The most current list of CSU campuses accepting this Associate Degree for Transfer is available online at calstate.edu/transfer/adt-search/search.shtml.

PSYCHOLOGY, ASSOCIATE DEGREE FOR TRANSFER

Program Learning Outcomes: Upon completion of the program, students will be able to identify, apply, and critique the use of the scientific method as it relates to the study of the human mind. Students should be capable of describing domains of psychology such as the relationship between the brain and behavior; patterns of thinking, memory, and learning; developmental and social influences; as well as atypical psychology and pathology.

Required Core Courses: (9 units minimum)

- MATH 54, Elementary Statistics (4)
- PSYCH 1, General Psychology (3)
- *PSYCH 7, Research Methods in Psychology (3)

*Students planning on transferring to CSULB should take the articulated course at one of the following community colleges for higher consideration for admission:

- El Camino: PSYCH 9B or SOC 109B
- Pasadena City College: PSYC 5
- Long Beach City College: PSYCH 2

West Los Angeles College: PSYCH 74
LIST A: Select at least 1 of the following courses: (3 units minimum)

- BIOL 3, Fundamentals of Biology (4)
- PSYCH 2, Physiological Psychology (3)

LIST B: Select at least 1 of the following courses (3 units minimum)

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

- ANATMY 2, Advanced Human Anatomy (4)
- CHEM 11, General Chemistry I (5)
- CHEM 12, General Chemistry II (5)
- CHEM 19, Fundamentals of General, Organic, and Biological Chemistry (5)
- CS 50, C Programming (3)
- CS 52, C++ Programing (3)
- ENGL 1, Reading and Composition 1 (3)
- ENGL 2, Critical Analysis and Intermediate Composition (3)
- HIST 47, The Practice of History (3)
- MATH 2, Precalculus (5)
- MATH 7, Calculus 1 (5)
- MATH 8, Calculus 2 (5)
- MATH 21, Finite Mathematics (3)
- MATH 28, Calculus 1 for Business and Social Science (5)
- PHILOS 7, Logic and Critical Thinking (3)
- PHILOS 9, Symbolic Logic (3)
- PHYSICS 6, General Physics 1 with Lab (4)
- PHYSICS 7, General Physics 2 with Lab (4)
- PHYSICS 8, Calculus-based General Physics 1 with Lab (4)
- PHYSICS 9, Calculus-based General Physics 2 with Lab (4)
- PHYSICS 21, Mechanics with Lab (5)
- PHYSICS 22, Electricity and Magnetism with Lab (5)
- PHYSICS 23, Fluids, Waves, Thermodynamics, Optics with Lab (5)
- PSYCH 11, Child Growth and Development (3)
- PSYCH 13, Social Psychology (3)
- PSYCH 19, Lifespan Human Development (3)
- SOCIOL 1, Introduction to Sociology (3)
- SOCIOL 1s, Introduction to Sociology – Service Learning (3)

LIST C: Select at least 1 of the following courses (3 units minimum)

- Any List A or B course not already used or any of the following courses.*
- PSYCH 3, Personality: Dynamics and Development (3)
 - PSYCH 5, The Psychology of Communication (3)
 - PSYCH 6, Marriage, Family, and Human Intimacy (3)
 - PSYCH 14, Abnormal Psychology (3)
 - PSYCH 25, Human Sexuality (3)
 - PSYCH 35, Seminar on Contemporary Psychological Issues (3)
 - PSYCH 40, Environmental Psychology (3) (*same as ENVRN 40*)

Public Policy

The Public Policy program consists of an interdisciplinary and multidisciplinary course of study that presents an overview of the development and implementation of important public policies affecting the lives of local, regional, and state

residents. This program is designed to equip students with the skills and tools to successfully engage in civic debate and to critically evaluate and analyze the development and implementation of substantive public policies, while providing an opportunity to work with governmental and non-governmental organizations and agencies in a direct way.

For additional career possibilities, visit the Career Services Center on the main campus to utilize computerized career information systems and other valuable career resources.

Programs Offered:

- Transfer Preparation
- Public Policy Associate Degree
- Public Policy Certificate of Achievement (19 units)
- See also Political Science

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

PUBLIC POLICY, ASSOCIATE DEGREE OR CERTIFICATE OF ACHIEVEMENT

Program Learning Outcomes: Upon completion of the program, students will demonstrate coherent and comprehensive analyses of the public policies affecting the lives of local, regional, and state citizens, and will be equipped with the skills and resources necessary for participation in civic life, including critical evaluation and analysis of policy options, policy development, and effective implementation strategies.

Required Core Courses: (7 units)

POL SC 1, American and California Politics (3)

or

POL SC 3, Introduction to Politics: Justice, Power and Agency (3)

POL SC 31, Introduction to Public Policy (3)

POL SC 95, Experiential Learning (1)

Critical Thinking and Communication:

AREA A: English Language and Critical Thinking (3 units)

BUS 32, Business Communications (3)

ENGL 1, Reading and Composition 1 (3)

ENGL 2, Critical Analysis and Intermediate Composition (3)

ENGL 31, Advanced Composition (3)

HIST 47, The Practice of History (3)

PHILOS 7, Logic and Critical Thinking (3)

AREA B: Oral Communication/Media Literacy: (3 units)

COM ST 11, Elements of Public Speaking (3)

COM ST 37, Intercultural Communication (3)

JOURN 1, The News (3)

MEDIA 1, Survey of Mass Media Communications (3)

MEDIA 2, Reading Media: Acquiring Media Literacy Skills (3)

MEDIA 10, Media, Gender, and Race (3)

WGS 30, Women, Gender, and Sexuality in Popular Culture (3) *(formerly WOM ST 30)*

SPECIALIZATION AREA: Students are required to take 2 courses WITHIN one of the following five (5) tracks: (6 units)

ARTS AND CULTURAL AFFAIRS TRACK

AHIS 3, Global Art History Since 1860 (3)

AHIS 11, Art Appreciation: Introduction to Global Visual Culture (3)

AHIS 72, American Art History (3)

DANCE 2, Dance in American Culture (3)

DANCE 5, Dance History (3)

DANCE 9, Dance Productions (3)

MUSIC 30, Music History I (3)

MUSIC 33, Jazz in American Culture (3)

MUSIC 36, History of Rock Music (3)

MUSIC 37, Music in American Culture (3)

TH ART 2, Introduction to the Theatre (3)

TH ART 5, History of World Theatre (3)

EDUCATION TRACK

ECE 11, Child, Family and Community (3)

ECE 19, Teaching in a Diverse Society (3)

ECE 45, Introduction to Children with Special Needs (3)

ECE 64, Health, Safety, and Nutrition for Young Children (3)

EDUC 12, Introduction to Elementary Classroom Teaching and Field Experiences (3)

LING 1, Introduction to Linguistics (3)

PSYCH 11, Child Growth and Development (3)

ENVIRONMENTAL TRACK

BIOL 9, Environmental Biology (3)

BIOL 9, Environmental Biology (3)

ENVRN 7, Introduction to Environmental Studies (3) *(same as GEOG 7)*

ENVRN 20, Environmental Ethics (3) *(same as PHILOS 20)*

ENVRN 22, Environmental Politics and Policies (3) *(same as POL SC 22)*

ENVRN 40, Environmental Psychology (3) *(same as PSYCH 40)*

GEOG 7, Introduction to Environmental Studies (3) *(same as ENVRN 7)*

GEOG 14, Geography of California (3)

PHILOS 20, Environmental Ethics (3) *(same as ENVRN 20)*

POL SC 22, Environmental Politics and Policies (3) *(same as ENVRN 22)*

PSYCH 40, Environmental Psychology (3) *(same as ENVRN 40)*

PUBLIC HEALTH TRACK

ECE 64, Health, Safety, and Nutrition for Young Children (3)

HEALTH 10, Fundamentals of Healthful Living (3)

HEALTH 60, Multicultural Health and Healing Practices (3) *(same as NURSNG 60)*

HEALTH 70, Integrative Health (3)

NURSNG 60, Multicultural Health and Healing Practices (3) *(same as HEALTH 60)*

NUTR 1, Introduction to Nutrition Science (3)

NUTR 7, Food and Culture in America (3)

PSYCH 8, Community Psychology (3)

PSYCH 13, Social Psychology (3)

URBAN/SOCIOECONOMIC TRACK

- ADJUS 1, Introduction to Administration of Justice (3)
 ECON 1, Principles of Microeconomics (3)
 ECON 2, Principles of Macroeconomics (3)
 ECON 6, Contemporary Economic Problems (3)
 HIST 10, Ethnicity and American Culture (3)
 POL SC 21, Race, Ethnicity, and the Politics of Difference (3)
 POL SC 24, Introduction to Law (3)
 PSYCH 8, Community Psychology (3)
 PSYCH 13, Social Psychology (3)

 SOCIOL 1, Introduction to Sociology (3)
or
 SOCIOL 1s, Introduction to Sociology – Service Learning (3)

 SOCIOL 2, Social Problems (3)
or
 SOCIOL 2s, Social Problems – Service Learning (3)

 SOCIOL 30, African Americans in Contemporary Society (3)
 SOCIOL 31, Latinas/os in Contemporary Society (3)
 SOCIOL 32, Asian Americans in Contemporary Society (3)
 SOCIOL 34, Racial and Ethnic Relations in American Society (3)
 URBAN 8, Introduction to Urban Studies (3) (*same as GEOG 8*)

Recycling and Resource Management

Recycling and resource management is among the largest and most rapidly growing industries in America. As more cities and businesses develop sustainability and zero waste policies, the need increases for personnel who can properly manage resource use and recycling. SMC's Recycling and Resource Management curriculum emphasizes an interdisciplinary approach, exploring recycling and resource management from a variety of perspectives and in a variety of settings. Core curriculum will provide students with an in-depth study of waste diversion and resource management, emphasizing cultural, community, and business applications. Courses cover governmental and organizational policies, practices, and procedures in waste and resource management, including best management practices and successful community and educational zero waste programs.

Programs Offered:

- Recycling and Resource Management Associate Degree
- Recycling and Resource Management Certificate of Achievement (18 units)
- Recycling and Zero Waste Department Certificate (12 units)

RECYCLING AND RESOURCE MANAGEMENT, ASSOCIATE DEGREE OR CERTIFICATE OF ACHIEVEMENT

Program Learning Outcomes: Upon completion of the program, students will demonstrate the ability to plan, implement, and oversee waste management programs aimed at implementing Zero Waste principles and sustainability practices for individuals, businesses, and the communities. Additionally, students will demonstrate the ability to write proposals and policy using correct terminology, principles, and California legislation and regulations regarding waste, recycling, sustainable resource management, and zero waste systems.

Required Courses: (12 units)

- RRM 1, Introduction to Recycling and Resource Management (3)
 RRM 2, Culture and Zero Waste (3)
 RRM 3, Resource Management and Zero Waste for Communities (3)
 RRM 4, Resource Management and Zero Waste for Business (3)

Restricted Electives: select 6 units from the following: (Please note that no more than 3 units of Counseling courses may be used to satisfy completion of this area.)

- BIOL 9, Environmental Biology (3)

 COUNS 16, Job Success Skills (1)
and
 COUNS 90B, General Internship (2)
or
 COUNS 90C, General Internship (3)

 ENVRN 7, Introduction to Environmental Studies (3) (*same as GEOG 7*)
 ENVRN 20, Environmental Ethics (3) (*same as PHILOS 20*)
 ENVRN 22, Environmental Politics and Policies (3) (*same as POL SC 22*)
 ENVRN 40, Environmental Psychology (3) (*same as PSYCH 40*)
 GEOG 7, Introduction to Environmental Geography (3) (*same as ENVRN 7*)

Recycling and Zero Waste Courses	Santa Monica College	Irvine Valley College	Golden West College
Introduction to Recycling and Resource Management	RRM 1	ENV 180	ENVS-G 141
Culture and Zero Waste	RRM 2	ENV 185	ENVS-G 142
Resource Management and Zero Waste for Communities	RRM 3	ENV 190	ENVS-G 144
Resource Management and Zero Waste for Business	RRM 4	ENV 195	ENVS-G 143

- PHILOS 20, Environmental Ethics (3) (*same as ENVRN 20*)
 POL SC 22, Environmental Politics (3) (*same as ENVRN 22*)
 PSYCH 40, Environmental Psychology (3) (*same as ENVRN 40*)

RECYCLING AND ZERO WASTE, DEPARTMENT CERTIFICATE

Recycling and Resource Management is among the largest and most rapidly growing industries in America. As more cities and businesses develop sustainability and zero waste policies, the need increases for personnel who can properly manage resource use and recycling. The Recycling and Resource Management curriculum emphasizes an interdisciplinary approach, exploring recycling and resource management from a variety of perspectives and in a variety of settings. Core curriculum will provide students with an in-depth study of waste diversion and resource management, emphasizing cultural, community, and business applications. Courses cover governmental and organizational policies, practices, and procedures in waste and resource management, including best management practices and successful community and educational zero waste programs.

Program Learning Outcomes: Upon completion of the program, students will demonstrate the ability to plan, implement, and oversee waste management programs aimed at implementing zero waste principles and sustainability practices for individuals, businesses, and the communities. Additionally, students will demonstrate the ability to write proposals and policy using correct terminology, principles, and California legislation and regulations regarding waste, recycling, sustainable resource management, and zero waste systems.

Required Courses: (12 units)

- RRM 1, Introduction to Recycling and Resource Management (3)
 RRM 2, Culture and Zero Waste (3)
 RRM 3, Resource Management and Zero Waste for Communities (3)
 RRM 4, Resource Management and Zero Waste for Business (3)

Note: Golden West College and Irvine Valley College also offer a certificate in recycling and zero waste. The courses will be accepted at each institution in the manner shown on the Recycling and Zero Waste Courses chart below.

Respiratory Care

Respiratory Care Practitioners are healthcare professionals who specialize in providing optimal cardiopulmonary care to patients with disorders such as asthma, pneumonia, and COPD, and infants with immature lungs, etc. Santa Monica College's Respiratory Care Program is a two-year, Associate in Science Degree program accredited by the Commission on Accreditation for Respiratory Care (CoARC). Through transforming competency-based medical education curriculum, the program prepares the respiratory care practitioner of the future to possess great medical knowledge, apply it, and be clinically competent to provide high-quality care in challenging settings likely to be encountered upon entry into practice.

The SMC Respiratory Care Associate Degree program incorporates the latest respiratory equipment, high-fidelity simulators, skills laboratory, and clinical experience at top-rated clinical sites in the Greater Los Angeles area. The program prepares students for National Board for Respiratory Care's (NBRC) board exams and to earn the Registered Respiratory Therapist (RRT) credential. The RRT credential is required for licensure in the state of California. To earn the RRT credential, graduates must pass the Therapist Multiple Choice Exam (TMC) at the high threshold and the Clinical Simulation Exam (CSE).

Program Offered:

- Respiratory Care Associate Degree

RESPIRATORY CARE, ASSOCIATE DEGREE

Program Learning Outcomes: The primary goal of the program, according to the Commission on Accreditation for Respiratory Care, is to prepare graduates with demonstrated competence in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains of respiratory care practice as performed by registered respiratory therapists (RRTs). Upon completion of the program graduates will:

1. Demonstrate applied knowledge about biomedical and clinical sciences associated with the role of a new-graduate respiratory care practitioner;
2. Function as members of interdisciplinary teams, exhibit interpersonal and communication skills required to interact with diverse sets of healthcare professionals, patients, and their families;
3. Demonstrate critical thinking, reflection, and problem-solving skills consistent with the roles of a new-graduate respiratory care practitioner; and
4. Exhibit ethical behavior consistent with the role of a professional respiratory care practitioner.

Program Prerequisites: (21 units)

ANATMY 1 Human Anatomy (4)

CHEM 10, Introductory General Chemistry (5)

or

CHEM 19, Fundamentals of General, Organic, and Biological Chemistry (5)

HEALTH 61, Medical Terminology (3)

MCRBIO 1, Fundamentals of Microbiology (5)

PHYS 3, Human Physiology (4)

Students may apply to program while prerequisites are in progress; must complete with grade "C" or better before start of the program.

First Year:

NOTE: Once students are admitted to the program, an Education Plan is developed that must be followed.

FALL SEMESTER: (15 units)

RC 1, Fundamentals of Respiratory Care (2)

RC 1L, Applied Fundamentals of Respiratory Care (2)

RC 2, Integrated Respiratory Physiology and Pathophysiology I (2)

RC 2L, Applied Integrated Respiratory Physiology and Pathophysiology I (2)

RC 3, Respiratory Care Therapeutics (3)

RC 3L, Applied Respiratory Care Therapeutics (3)
RC 4, Physician Interaction I (1)

WINTER SESSION: (4 units)

RC 5, Integrated Respiratory Physiology and Pathophysiology II (2)
RC 5L, Applied Integrated Respiratory Physiology and Pathophysiology II (2)

SPRING SEMESTER: (12 units)

RC 6, Airway Management (2)
RC 6L, Applied Airway Management (3)
RC 7, Introduction to Mechanical Ventilation (2)
RC 7L, Applied Introduction to Mechanical Ventilation (4)
RC 8, Physician Interaction II (1)

Second Year:

SUMMER SESSION: (5 units)

RC 9, Intermediate Mechanical Ventilation (2)
RC 9L, Applied Intermediate Mechanical Ventilation (3)

FALL SEMESTER: (14.5 units)

RC 10, Advanced Life Support and ICU Monitoring (2)
RC 10L, Applied Advanced Life Support and ICU Monitoring (3)
RC 11, Advanced Mechanical Ventilation (2)
RC 11L, Applied Advanced Mechanical Ventilation (2)
RC 12, Physician Interaction III (1)
RC 13, Neonatal and Pediatric Respiratory Care (2)
RC 13L, Applied Neonatal and Pediatric Respiratory Care (2)

SPRING SEMESTER: (11 units)

RC 14, Outpatient Respiratory Care (1)
RC 14L, Applied Outpatient Respiratory Care (2)
RC 15, Respiratory Disease Management (2)
RC 15L, Applied Respiratory Disease Management (2)
RC 16, Transition to Independent Practice (2)
RC 17, Physician Interaction IV (1)
RC 18, Computer Assisted Clinical Simulations (1)

All program courses must be completed with a "C" grade or better to meet the CA Respiratory Care Board Licensure requirements. Students must obtain an Associate degree from Santa Monica College upon completion of the program requirements in order to meet minimum CA licensure requirements.

Respiratory Therapy

NOTE: Respiratory Therapy is now Respiratory Care effective fall 2021. Please see listing and degree requirements under "Respiratory Care."

The program is a partnership between Santa Monica College (SMC) and East Los Angeles College (ELAC). Graduates earn an Associate degree in Respiratory Therapy. The program allows the graduate to take the Therapist Multiple-Choice Examination (TMC) and, by achieving a high cut score on the TMC, become eligible for the Clinical Simulation Exam (CSE); passing both exams awards the graduate the Registered Respiration Therapy (RRT) credential. **The RRT credential is required for licensure in the state of California.**

All courses are offered on the SMC campus.

It is recommended that students who select Respiratory Therapy as an academic or career path make an appointment with the RT Faculty Advisor in the Santa Monica College Health Sciences Department. Applications for the Respiratory Therapy Program can be obtained online (go to smc.edu/respiratorytherapy) and from the Health Science Department at SMC's Bundy Campus. Additional program information and/or an appointment may be made with the Respiratory Therapy faculty by calling 310-434-3463.

Clinical training occurs in some of the most respected medical facilities in the United States (e.g., UCLA Medical Center and USC University Medical Center). **Applicants must have a negative criminal background check and pass a drug screening procedure to participate in any clinical courses. A typical sequence of courses is demonstrated below.**

Program Offered:

- Respiratory Therapy Associate Degree

RESPIRATORY THERAPY, ASSOCIATE DEGREE

Program Learning Outcomes: Students who complete the Respiratory Therapy program will accurately initiate, conduct, and modify prescribed therapeutic procedures using clinical data. Graduates will participate in developing and evaluating respiratory care plans, and monitor and record patient response to the care, both in clinical settings and emergency situations.

PLEASE NOTE: Students must have completed Physiology and Microbiology within the last 7 years at the time of entry into the Respiratory Therapy program.

Required Courses:

ANATMY 1, Human Anatomy (4)
PHYS 3, Human Physiology (4)

CHEM 10, Introductory General Chemistry (5)
or
CHEM 19, Fundamentals of General, Organic, and Biological Chemistry (5)

MCRBIO 1, Fundamentals of Microbiology (5)

COM ST 11, Elements of Public Speaking (3)
or
COM ST 35, Interpersonal Communication (3)
or
COM ST 37, Intercultural Communication (3)

ENGL 1, Reading and Composition (3)

MATH 18, Intermediate Algebra for Statistics and Finite Mathematics (3)
or
MATH 20, Intermediate Algebra (3)
or Higher

First Year (24 or 25 units)

Once students are admitted to the program, an Education Plan is developed that must be followed.

FALL SEMESTER (13 or 14 units)

RESP TH 1, Introduction to Respiratory Therapy (2)
RESP TH 2, Fundamentals of Respiratory Therapy (4)
RES TH 60, Respiratory Physiology (4)

PHYSCS 12, Introductory Physics (3)

or

PHYSCS 14, Introductory Physics with Laboratory (4)

SPRING SEMESTER (11 units)

RESP TH 29, Neonatal and Pediatric Respiratory Therapy (4)

RESP TH 30, Adult Critical Care Monitor and Diagnostics (3)

RESP TH 70, Pathophysiology (4)

Second Year (26 units)

All Respiratory Therapy coursework from this point on is offered on the ELAC campus.

SUMMER SESSION (4 units)

RESP TH 15, Introduction to Clinical Experience (4)

FALL SEMESTER (11 UNITS)

RESP TH 3, Application of Respiratory Therapy and Clinical Experience I (5)

RESP TH 4, Application of Respiratory Therapy and Clinical Experience II (5)

RESP TH 27, Physician Clinical Rounds, Critical Thinking Lab 1 (1)

SPRING SEMESTER (11 units)

RESP TH 5, Application of Respiratory Therapy and Clinical Experience III (5)

RESP TH 11, Application of Respiratory Therapy and Clinical Experience IV (5)

RESP TH 28, Physician Clinical Rounds, Critical Thinking Lab 2 (1)

All program courses must be completed with a “C” grade or better to meet the CA Respiratory Care Board Licensure requirements. Students must obtain an Associate degree from Santa Monica College upon completion of the program requirements in order to meet minimum CA licensure requirements.

Russian

See *Modern Languages*

Science

This program offers an interdisciplinary foundation in the natural sciences for students who wish to transfer to pursue their education and training at the upper-division (or advanced) level in biology, chemistry, earth sciences, environmental science, geology, mathematics, physics, and many others. It is a basic foundation for students who are preparing for careers in fields where scientific and technical skills are in demand, including health sciences, medicine, business, agriculture, education, and government.

Programs Offered:

- Transfer Preparation
- General Science Associate Degree
- See also Astronomy
- See also Biological Sciences
- See also Chemistry
- See also Geology
- See also Physics

TRANSFER PREPARATION

Students planning to transfer to a four-year college or university in a particular field of science should complete the lower-division major requirements and the general education pattern for the specific transfer institution’s program. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

GENERAL SCIENCE, ASSOCIATE DEGREE

Program Learning Outcomes: Upon completion of the program, students will demonstrate through oral, written, and laboratory-based academic work knowledge of the physical and life sciences, and be prepared to pursue further study in a science major at the baccalaureate level. Students will be proficient in the scientific method, research, analytical, and communication skills necessary to present a critical analysis of scientific phenomena and devise solutions.

Select 18 units from the following three groups as specified below:

GROUP A: Mathematics (a minimum of 1 course of at least 3 units required):

ACCTG 45 (same as BUS 45)

BUS 45 (same as ACCTG 45)

MATH – 2, 3, 4, 7, 8, 10, 11, 13, 15, 18, 20, 21, 26, 28, 29, 32*, 41, 49, 50, 54

*if completed fall 2006 or later

GROUP B: Physical Science (a minimum of 1 course of at least 3 units required):

ASTRON – 1, 2, 3, 4, 5, 7, 8, 9, 10 (same as GEOL 10)

CHEM – all courses

GEOG 1, 3, 5, 35F, 35S

GEOL – all courses

PHYSCS – all courses

GROUP C: Life Sciences (minimum of 3 units)

At least 1 course required:

ANATMY – all courses

ANTHRO 1, 5, 8, 9, 10

BIOL – all courses (except BIOL 81)

BOTANY – all courses

MCRBIO – all courses

NUTR 1

PHYS 3

PSYCH 2

ZOOL 5

Social Justice Studies, Gender Studies

The Associate Degree for Transfer (AA-T) in Social Justice Studies, Gender Studies involves the understanding of the history, sociology, and politics of women, gender, and sexuality in society. The program examines gender- and sexuality-based oppression throughout history, and also the ways in which women have taken power over their lives. Students

will better understand the impact of women, gender, and sexuality on various cultures at various times, and evaluate changing social patterns and the effects of institutions and cultural assumptions. The program can lead to a variety of careers, including community organizer, political lobbyist, and political strategist. This degree may also prepare the student for further study at the baccalaureate level.

Programs Offered:

- Transfer Preparation
- Social Justice Studies, Gender Studies Associate Degree for Transfer

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

The University of California system has a transfer pathway for any UC campus that offers Sociology. For more information, visit pathwaysguide.universityofcalifornia.edu

SMC offers the Sociology Associate Degree for Transfer. Students completing this degree are eligible for priority transfer admission consideration in the majors at many **California State University** campuses. In addition, students will be required to complete no more than 60 semester/90 quarter CSU units of coursework after transfer to complete the baccalaureate degree.

NOTE: Students considering transfer to a UC, private, or out-of-state school should consult a counselor BEFORE applying to transfer, as the transfer requirements may be different from those required for the Social Justice Studies: Women, Gender, and Sexuality AA-T.

The most current list of CSU campuses accepting this Associate Degree for Transfer is available online at calstate.edu/transfer/adt-search/search.shtml.

SOCIAL JUSTICE STUDIES, GENDER STUDIES, ASSOCIATE DEGREE FOR TRANSFER

Program Learning Outcomes: Upon completion of the program, students will demonstrate through oral and written work: 1) a familiarity with the basic principles from the field of women's, gender, and sexuality studies and feminist theories; 2) an understanding of intersectional perspectives — how identities such as race, sexuality, class, and ability inform and intersect with gender; and 3) a proficiency in the research, analytical, and communication skills necessary to present an analysis of gender-based challenges in the world today and the proposed solutions to these challenges.

Required Women's, Gender, and Sexuality Studies Core Courses: Select 2 of the following courses: (9 units)

SOCIOL 33, Sociology of Sex and Gender (3)

WGS 10, Introduction to Women's, Gender and Sexuality Studies (3) *(formerly WOM ST 10)*
WGS 40, Introduction to LGBTQ Studies (3)

Required Social Justice Studies Core Course:

SOCIOL 34, Racial and Ethnic Relations in American Society (3)

Restricted Electives: Select 3 courses from at least 2 of the following areas:

NOTE: Only 1 course from Area 4 may be used.

Area 1: History or Government

HIST 52, The History of Women in American Culture (3)

Area 2: Arts and Humanities

ENGL 59, Lesbian and Gay Literature (3)

FILM 6, Women in Film (3)

Area 3: Social Sciences

ANTHRO 2, Cultural Anthropology (3)

ANTHRO 14, Sex, Gender, and Culture (3)

COM ST 36, Gender and Communication (3)

COM ST 37, Intercultural Communication (3)

ECON 8, Women in the Economy (3) *(same as WGS 8)*

MEDIA 10, Media, Gender, and Race (3)

PSYCH 6, Marriage, Family, and Human Intimacy (3)

PSYCH 25, Human Sexuality (3)

SOCIOL 1, Introduction to Sociology (3)

or

SOCIOL 1s, Introduction to Sociology – Service Learning (3)

SOCIOL 12, Sociology of the Family (3)

WGS 8, Women in Economy (3) *(same as ECON 8)*

WGS 20, Gender, Feminisms, and Social

Movements: A Global Approach (3) *(formerly WOM ST 20)*

WGS 30, Women, Gender and Sexuality in Popular Culture (3) *(formerly WOM ST 30)*

Area 4: Quantitative Reasoning and Research Methods

MATH 54, Elementary Statistics (4)

or

PSYCH 7, Research Methods in Psychology (3)

or

SOCIOL 4, Sociological Analysis (3)

Sociology

The Associate in Arts in Sociology for Transfer (AA-T) involves the scientific study of society, social institutions, and social relationships. The course of study provides students the opportunity to acquire skills in research, information gathering, analytical and critical thinking, problem solving, and written and verbal communication.

Program Learning Outcomes: Upon completion of the Associate in Arts in Sociology for Transfer (AA-T), students will have a strong academic foundation in the field and be prepared for upper-division baccalaureate study. Completion of the degree indicates that the student will have satisfied the lower-division requirements for transfer into a Sociology program for many campuses in the California State University system.

Programs Offered:

- Transfer Preparation
- Sociology Associate Degree for Transfer
- See also Liberal Arts – Social and Behavioral Science

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

The **University of California system has a transfer pathway** for any UC campus that offers Sociology. For more information, visit pathwaysguide.universityofcalifornia.edu

SMC offers the Sociology Associate Degree for Transfer. Students completing this degree are eligible for priority transfer admission consideration in the majors at many **California State University** campuses. In addition, students will be required to complete no more than 60 semester/90 quarter CSU units of coursework after transfer to complete the baccalaureate degree.

NOTE: Students considering transfer to a UC, private, or out-of-state school should consult a counselor BEFORE applying to transfer, as the transfer requirements may be different from those required for the Sociology AA-T.

The most current list of CSU campuses accepting this Associate Degree for Transfer is available online at calstate.edu/transfer/ad-search/search.html

SOCIOLOGY, ASSOCIATE DEGREE FOR TRANSFER

The Associate in Arts for Transfer (AA-T) is designed to facilitate transfer admission to a CSU in a similar major. Students considering transfer to a UC, private, or out-of-state school should consult a counselor regarding the transfer requirements of that institution.

Associate Degree for Transfer Requirements:

Completion of at least 60 CSU-transferable semester including:

- Completion of the academic or career path with a grade of C or higher in each course or with a P if the course was taken on a Pass/No Pass basis, and the P is equal to a C or higher (Title 5 §55063)
- Completion of either CSU GE or IGETC; students transferring to CSU using IGETC must complete Area 1C (see smc.edu/articulation or visit General Counseling & Transfer Services)
- A minimum of 12 degree-applicable semester units completed at SMC
- A minimum overall GPA of 2.0 in all CSU-transferable units Note: while a minimum GPA of 2.0 is required for admission to a CSU, some majors/cam-

pus may require a higher GPA. Please consult with a counselor for details.)

Program Learning Outcomes: Upon completion of the program, students will demonstrate, through written and oral academic work, critical examination of the influence of social forces on groups and individuals, as well as the impact of groups and individuals on society. Students will be able to identify, apply, and critique the use of the scientific method as it relates to the study of society.

Required Introduction Courses: (3 units)

SOCIOL 1, Introduction to Sociology (3)

or

SOCIOL 1s, Introduction to Sociology – Service Learning (3)

Required Core Courses: Select 2 of the following courses: (6 units)

MATH 54, Elementary Statistics (4)

SOCIOL 2, Social Problems (3)

or

SOCIOL 2s, Social Problems – Service Learning (3)

SOCIOL 4, Sociological Analysis (3)

List A Electives: Select 2 of the following courses: (6 units)

Any course not used above

PSYCH 13, Social Psychology (3)

SOCIOL 12, Sociology of the Family (3)

SOCIOL 33, Sociology of Sex and Gender (3)

SOCIOL 34, Racial and Ethnic Relations in American Society (3)

List B Electives: Select 1 of the following courses: (3 units)

Any course not used above

Any course which satisfies CSU GE Area D

BUS 5, Business Law and the Legal Environment (3)

BUS 6, Advanced Business Law (3)

ENGL 2, Critical Analysis and Intermediate Composition (3)

HIST 47, The Practice of History (3)

PHILOS 7, Logic and Critical Thinking (3)

PHILOS 9, Symbolic Logic (3)

SOCIOL 30, African Americans in Contemporary Society (3)

SOCIOL 31, Latinas/os in Contemporary Society (3)

SOCIOL 32, Asian Americans in Contemporary Society (3)

Any course that satisfies CSU GE Area D:

Solar Photovoltaic Installation (Solar Energy Installation)

See Photovoltaic Installation

Spanish

The Associate in Arts in Spanish for Transfer (AA-T) prepares students to interact with the Spanish-speaking world by providing them with a foundation in the language, history, arts, culture, and literatures of the different countries that comprise it. As students complete this program, they

acquire knowledge and skills that are applicable to diverse areas of study in the liberal arts as well as preparation for various professions that provide services or products for Spanish-speakers.

Upon completion of the Associate in Arts in Spanish for Transfer (AA-T), students will have a strong academic foundation in the field and be prepared for upper-division baccalaureate study. Completion of the degree indicates that the student will have satisfied the lower-division requirements for transfer into Spanish or similar majors for many campuses in the California State University system.

Programs Offered:

- Transfer Preparation
- Spanish Associate Degree for Transfer
- See also Modern Languages

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

SMC offers the **Spanish Associate Degree for Transfer**. Students completing this degree are eligible for priority transfer admission consideration in the majors at many **California State University** campuses. In addition, students will be required to complete no more than 60 semester/90 quarter CSU units of coursework after transfer to complete the baccalaureate degree.

NOTE: Students considering transfer to a UC, private, or out-of-state school should consult a counselor BEFORE applying to transfer, as the transfer requirements may be different from those required for the Spanish AA-T.

The most current list of CSU campuses accepting this Associate Degree for Transfer is available online at calstate.edu/transfer/adt-search/search.html

SPANISH, ASSOCIATE DEGREE FOR TRANSFER

Program Learning Outcomes: Upon completion of the program, students will demonstrate the ability to speak, understand, read, and write the Spanish language. As evidenced by written and oral communication, students will demonstrate a general understanding of the diverse cultures of Spanish-speaking countries, as well as Spanish and Latin American civilizations from ancient times to the modern era. In addition, students will demonstrate critical thinking abilities by examining issues that pertain to the diverse manifestations of Spanish language and culture throughout the world.

Required Core Courses: (15 units minimum)

SPAN 2, Elementary Spanish II (5)

or

SPAN 11, Spanish for Heritage Speakers I (5)

SPAN 3, Intermediate Spanish I (5)

or

SPAN 12, Spanish for Native Speakers 2 (5)

SPAN 4, Intermediate Spanish II (5)

If student "places out" of any of the above levels of Spanish, the following courses may be substituted: (up to 10 units)

Spanish Literature and Culture Advanced Placement
(AP) Exam score of 3 or higher (5)

ANTHRO 2, Cultural Anthropology (3)

ANTHRO 7, Introduction to Linguistic Anthropology (3)

ANTHRO 14, Sex, Gender, and Culture (3)

ANTHRO 21, Peoples and Power in Latin America (3)

COM ST 35, Interpersonal Communication (3)

COM ST 37, Intercultural Communication (3)

ENGL 2, Critical Analysis and Intermediate
Composition (3)

ENGL 31, Advanced Composition (3)

ENGL 53, Latino Literature in the United States (3)

ENGL 57, Latin-American Literature (3)

ENGL 58, Literature of Mexico (3)

FRENCH 1, Elementary French I (5)

FRENCH 2, Elementary French II (5)

FRENCH 3, Intermediate French I (5)

FRENCH 4, Intermediate French II (5)

GEOG 2, Introduction to Human Geography (3)

HIST 5, History of Latin America 1 (3)

HIST 6, History of Latin America 2 (3)

HIST 19, History of Mexico (3)

HIST 42, The Latina/o Experience in the United States
(3)

HIST 43, Mexican-American History (3)

HIST 47, The Practice of History (3)

ITAL 1, Elementary Italian I (5)

ITAL 2, Elementary Italian II (5)

ITAL 3, Intermediate Italian I (5)

MEDIA 46, Television Production (3)

PORTGS 1, Elementary Portuguese 1 (5)

SOCIOL 1, Introduction to Sociology (3)

SOCIOL 1s, Introduction to Sociology – Service
Learning (3)

SOCIOL 31, Latinas/os in Contemporary Society (3)

SOCIOL 33, Sociology of Sex and Gender (3)

SOCIOL 34, Racial and Ethnic Relations in American
Society (3)

SPAN 8, Conversational Spanish (2)

SPAN 9, The Civilization of Spain (3)

SPAN 20, Latin American Civilization (3)

Restricted Electives: Select 1 of the following courses if not used above: (3 units minimum)

Spanish Literature and Culture Advanced Placement
(AP) Exam score of 3 or higher (5)

COM ST 35, Interpersonal Communication (3)

ENGL 2, Critical Analysis and Intermediate
Composition (3)

ENGL 31, Advanced Composition (3)

ENGL 53, Latino Literature in the United States (3)

ENGL 57, Latin-American Literature (3)

ENGL 58, Literature of Mexico (3)

FRENCH 1, Elementary French I (5)

FRENCH 2, Elementary French II (5)

FRENCH 3, Intermediate French I (5)

- FRENCH 4, Intermediate French II (5)
- HIST 5, History of Latin America 1 (3)
- HIST 6, History of Latin America 2 (3)
- HIST 19, History of Mexico (3)
- HIST 42, The Latina/o Experience in the United States (3)
- HIST 43, Mexican-American History (3)
- HIST 47, The Practice of History (3)
- ITAL 1, Elementary Italian I (5)
- ITAL 2, Elementary Italian II (5)
- ITAL 3, Intermediate Italian I (5)
- MEDIA 46, Television Production (3)
- SPAN 8, Conversational Spanish (2)
- SPAN 9, The Civilization of Spain (3)
- SPAN 20, Latin American Civilization (3)

Studio Arts

See Art

Sustainability Systems and Technology - Noncredit

Programs Offered:

- Sustainability Assistant Certificate of Completion (Noncredit)
- Sustainability in Organic Aide Certificate of Completion (Noncredit)
- Sustainability Services Technician Certificate of Completion (Noncredit)

SUSTAINABILITY ASSISTANT, CERTIFICATE OF COMPLETION (NONCREDIT)

This noncredit certificate program will introduce students to sustainability principles, community engagement, education and outreach, and policy and governance. Completion can provide a pathway to jobs as entry-level sustainability assistants and coordinators, community engagement representatives, researcher assistants, customer service representatives, and project management assistants. This program is not intended as a substitute for any credit certificate or associate degree. It is recommended that students have fluency in English or an intermediate or higher skill level in ESL.

Program Learning Outcomes:

- Demonstrate a general understanding of sustainability principles
- Identify occupational opportunities in industry and government
- Demonstrate a basic understanding of sustainability laws, including the approaches to plan and develop private and public policies in sustainability
- Develop an education and outreach goal, and a program to foster sustainable behaviors
- Develop an entrepreneurial mindset

Required Courses:

- SST 901, Fundamentals of Sustainability (0)
- SST 902, Sustainability Outreach (0)
- SST 908, Impacts of Policy on Sustainability (0)

SUSTAINABILITY IN ORGANICS AIDE, CERTIFICATE OF COMPLETION (NONCREDIT)

This noncredit certificate program will introduce students to sustainability principles and practices in organics micro-composting, and sustainable food systems. Completion can provide a pathway to jobs as entry-level micro-composter operators, sustainable food system technicians, sales representatives, and entry-level managerial assistants. This program is not intended as a substitute for any credit certificate or associate degree. It is recommended that students have fluency in English or an intermediate or higher skill level in ESL.

Program Learning Outcomes:

- Demonstrate a general understanding of sustainability principles related to organics
- Demonstrate a basic understanding of how to implement organics sustainability into the workplace
- Develop a personal and occupational organics sustainability goal, and a plan to implement a program
- Develop an entrepreneurial mindset
- Identify occupational opportunities in industry and government

Required Courses:

- SST 901, Fundamentals of Sustainability (0)
- SST 904, Sustainability Assessment (0)
- SST 906, Introduction to Clean Technologies (0)

SUSTAINABILITY SERVICES TECHNICIAN, CERTIFICATE OF COMPLETION (NONCREDIT)

This noncredit certificate program will introduce students to sustainability principles, including materials and environmental assessment methods, and clean technology systems and practices. Completion will provide a pathway to jobs as entry-level sustainability assessors, program technicians, sales representatives, and entry-level managerial assistants. This program is not intended as a substitute for any credit certificate or associate degree. It is recommended that students have fluency in English or an intermediate or higher skill level in ESL.

Program Learning Outcomes:

- Identify occupational opportunities in industry and government
- Demonstrate a basic understanding of how to implement sustainability into the work-place
- Develop a personal and occupational sustainability goal, and a plan to implement a program
- Develop an entrepreneurial mindset
- Demonstrate a general understanding of sustainability principles

Required Courses:

- SST 901, Fundamentals of Sustainability (0)
- SST 904, Sustainability Assessment (0)
- SST 906, Introduction to Clean Technologies (0)

Theatre Arts

Theatre Arts can help prepare people for many career opportunities including work in the specific areas of theater production or performance as well as the related areas of advertising, television, film, recreation, education, and management. Theater managers manage theaters

for stage productions or motion pictures. Related career titles include actor, director, costumer, script coach, stunt person, playwright, drama coach, set designer, business manager and instructor.

Programs Offered:

- Transfer Preparation
- Theatre Arts Associate Degree for Transfer
- Technical Theatre Associate Degree
- Theatre Associate Degree
- Technical Theatre Certificate of Achievement (19 units)
- Scenic Design and Construction Department Certificate (9 units)
- Stage Lighting, Sound and Projection Department Certificate (9 units)

TRANSFER PREPARATION

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, nonprofit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.

SMC offers the **Theatre Arts Associate Degree for Transfer**. Students completing this degree are eligible for priority transfer admission consideration in the majors at many **California State University** campuses. In addition, students will be required to complete no more than 60 semester/90 quarter CSU units of coursework after transfer to complete the baccalaureate degree.

NOTE: Students considering transfer to a UC, private, or out-of-state school should consult a counselor BEFORE applying to transfer, as the transfer requirements may be different from those required for the Theatre Arts AA-T.

The most current list of CSU campuses accepting this Associate Degree for Transfer is available online at calstate.edu/transfer/adt-search/search.html

THEATRE ARTS, ASSOCIATE DEGREE FOR TRANSFER

Upon completion of the Associate in Arts in Theatre Arts for Transfer, students will have a strong academic foundation in the field and be prepared for upper division baccalaureate study. Completion of the degree indicates that the student will have satisfied the lower division requirements for transfer into Theatre Arts or similar major for many campuses in the California State University system. This degree complies with The Student Transfer Achievement Reform Act (Senate Bill 1440).

Students pursuing the Associate in Arts in Theatre Arts for Transfer will demonstrate, through written and oral academic work and performance skill, knowledge of the principles, concepts, and theories of theatre art and performance

and be prepared to pursue further study in theatre arts or a similar major at the baccalaureate level at the California State University.

Program Learning Outcomes: Upon completion of the program, students will be able to evaluate and appreciate a theatrical performance by recognizing the inherent components that go into creating theatre, including the research involved, the collaboration among designers and directors, the rehearsal process, and the technical skills involved in making a play come to life. In addition, students will hone performance, design, analytical, or technical skills leading to performance in the capacity of at least one of the following: actor, director, stage manager, set/light/sound/costume/make-up designer, stage technician, reviewer, educated audience member.

Required Core Courses: (6 units)

TH ART 2, Introduction to the Theatre (3)

or

TH ART 5, History of World Theatre (3)

TH ART 41, Acting I (3)

An additional 12 units are required with a minimum of 3 units from List A, and a minimum of 6 units from List B. The remaining 3 units may come from either list.

LIST A: Rehearsal and Performance or Technical Theatre Practicum: (3-6 units)

MUSIC 45, Music Theatre Workshop (3) *(same as TH ART 45)*

MUSIC 46, Production for the Younger Audience (3) *(same as TH ART 53)*

TH ART 18A*, Technical Theatre Production Workshop (1)

TH ART 18B*, Technical Theatre Production Workshop (2)

TH ART 18C*, Technical Theatre Production Workshop (3)

TH ART 45, Music Theatre Workshop (3) *(same as MUSIC 45)*

TH ART 50, Advanced Production – Full Play (3)

TH ART 53 Production for the Younger Audience (3) *(same as MUSIC 46)*

TH ART 55, Advanced Production – Small Theatre Venue (3)

Any combination of TH ART 18A, 18B, and/or 18C to total a maximum of 3 units

LIST B: Select courses from the following: (6-9 units)

MUSIC 45, Music Theatre Workshop (3) *(same as TH ART 45)*

MUSIC 46, Production for the Younger Audience (3) *(same as TH ART 53)*

TH ART 20, Stagecraft (3)

TH ART 22, Stage Lighting (3)

TH ART 26, Introduction to Stage Costuming (3)

TH ART 42, Acting II (3)

TH ART 45, Musical Theatre Workshop (3) *(same as MUSIC 45)*

TH ART 50, Advanced Production – Full Play (3)

TH ART 53, Production for the Younger Audience (3) *(same as MUSIC 46)*

TH ART 55, Advanced Production – Small Theatre Venue (3)

TECHNICAL THEATRE, ASSOCIATE DEGREE OR CERTIFICATE OF ACHIEVEMENT

The Technical Theatre Program provides rigorous academic instruction, hands-on practical training, and experiential learning in several areas of technical theatre production. Through coursework as well as practical work on theatrical productions, students are trained in stagecraft, stage lighting, stage sound, scenic and prop construction, stage management, stage costuming, and stage make-up. Students will work with advanced technology and materials in the use of intelligent lighting systems, audio equipment, video projection equipment, stage machinery, set construction, scenic painting, and costume construction and design. Internship, mentorships, and entry level job opportunities in the industry are made available to candidates who meet and exceed expectations.

Program Learning Outcomes: Upon completion of the program, students will be able to evaluate and appreciate a theatrical performance by recognizing the inherent components that go into creating theatre, including the research involved, the collaboration among designers and directors, the rehearsal process, and the technical skills involved in making a play come to life. In addition, students will hone design and technical skills leading to performance in the capacity of at least one of the following: Stage Manager, Set/Light/Sound/Costume/Make-Up Designer, Stage Technician.

Required Introduction/History Courses: Select 3 units from the following:

- TH ART 2, Introduction to the Theatre (3)
- TH ART 5, History of World Theatre (3)

Required Stagecraft Course:

- TH ART 20, Stagecraft (3)

Required Production Workshop Courses: Select 3 units from the following:

- TH ART 18A, Technical Theatre Production Workshop (1)
- TH ART 18B, Technical Theatre Production Workshop (2)
- TH ART 18C, Technical Theatre Production Workshop (3)

Elective Courses: Select at least 10 units from the following:

- TH ART 21, Scenic Painting Techniques (3)
- TH ART 22, Stage Lighting (3)
- TH ART 23, Projection and Lighting Design (3)
- TH ART 25, Introduction to Theatrical Sound (3)
- TH ART 26, Introduction to Stage Costuming (3)
- TH ART 28A, Beginning Stage Make-Up (1)
- TH ART 28B, 3D and Theatrical Styles Make-Up (1)
- TH ART 31, Introduction to Stage Management (3)
- TH ART 32, Scenic Design (2)

THEATRE, ASSOCIATE DEGREE

The program provides instruction and training in the field of Theatre Arts. A comprehensive curriculum in acting, voice, movement, theatrical styles, theatre history, production, and technical theatre prepares students for university transfer and future careers. The program seeks to empower students at all levels to hone their performance, technical or critical/analytical skills through active and rigorous engagement in their areas of study. The program makes

effort to instill a sense of responsibility in students and a desire for excellence in their craft.

The department's curriculum focuses on providing education and experience towards mounting theatrical productions. Performance related classes one skill enabling the actor to audition and perform with confidence. Technical Theatre classes provide students with the knowledge and skills to tackle various aspects of technical theatre. Department productions are student cast and run by student crews.

Program Learning Outcomes: Upon completion of this program, students will be able to evaluate and appreciate a theatrical performance by recognizing the inherent components that go into creating theatre, including the research involved, the collaboration among designers and directors, the rehearsal process, and the technical skills involved in making a play come to life. In addition, students will hone performance, design, and analytical or technical skills leading to performance in the capacity of at least one of the following: Actor, Director, Stage Manager, Set/Light/Sound/Costume/Make-Up Designer, Stage Technician, Reviewer, Educated Audience Member.

Required Core Courses: (14 units)

- TH ART 5, History of World Theatre (3)
- TH ART 10A, Voice Development for the Stage (3)
- TH ART 15, Stage Movement for the Actor (1)
(formerly TH ART 15A)
- TH ART 20, Stagecraft (3)
- TH ART 28A, Beginning Stage Make-Up (1)
- TH ART 41, Acting I (3)

Required Production Workshop Courses: (3 units minimum)

- TH ART 18A, Technical Theatre Production Workshop (1)
- TH ART 18B, Technical Theatre Production Workshop (2)
- TH ART 18C, Technical Theatre Production Workshop (3)

Technical Theatre Courses: Select 1 course from the following: (3 units)

- TH ART 21, Scenic Painting Techniques (3)
- TH ART 22, Stage Lighting (3)
- TH ART 23, Projection and Lighting Design (3)
- TH ART 25, Introduction to Theatrical Sound (3)
- TH ART 26, Introduction to Stage Costuming (3)
- TH ART 31, Introduction to Stage Management (3)

Advanced Performance Courses: Select 1 course from the following: (2 units)

- MUSIC 45, Musical Theatre Workshop (3) (same as TH ART 45)
- MUSIC 46, Production for the Young Audience (3)
(same as TH ART 53)
- TH ART 10B, Advanced Voice Development for the Stage (3)
- TH ART 13, Stage Dialects (3)
- TH ART 14, Beginning Stage Combat (2)
- TH ART 16, Advanced Stage Movement for the Actor (2) (same as TH ART 15B)
- TH ART 38A, Beginning Stage Direction (3)
- TH ART 42, Acting II (3)
- TH ART 43, Acting, Historical Styles – Early (3)
- TH ART 44, Acting, Historical Styles – Late (3)

- TH ART 45, Musical Theatre Workshop (3) (*same as MUSIC 45*)
 TH ART 50, Advanced Production – Full Length Play (3)
 TH ART 52, Advanced Production – Musical Theatre (5)
 TH ART 53, Production for the Younger Audience (3) (*same as MUSIC 46*)
 TH ART 55, Advanced Production – Small Theatre Venue (1)

SCENIC DESIGN AND CONSTRUCTION, DEPARTMENT CERTIFICATE

This certificate provides rigorous academic Instruction and practical training for students to attain skills and knowledge In Scenic Design and Construction.

Program Learning Outcomes: Upon completion of the program, students will demonstrate knowledge and basic skills in the area of set building, construction, and painting techniques.

Required Courses:

- TH ART 18A, Technical Theatre Production Workshop (1)
 TH ART 20, Stagecraft (3)
 TH ART 21, Scenic Painting Techniques (3)
 TH ART 32, Scenic Design (2)

This is a stackable certificate. Additional coursework can lead to a Certificate of Achievement or an Associate degree in Technical Theatre.

STAGE LIGHTING, SOUND AND PROJECTION, DEPARTMENT CERTIFICATE

The Stage Lighting, Sound and Projection Certificate provides academic Instruction, hands-on practical training and experimental learning in the specific areas of Lighting, Sound and Projection for Theatre and Live Events. Students will work with advanced technology and materials in the use of Intelligent Lighting Systems, Sound and Projection equipment.

Program Learning Outcomes: Upon completion of this Certificate, the student will:

1. Demonstrate analytical and technical skills In the areas of Stage Lighting, Sound and Projection for theatrical or Live Events.
2. Evaluate and appreciate a production by recognizing Its Inherent components Including research, collaboration and the technical skills Involved.

These core courses will introduce students to the areas of Theatrical and Live Event Sound, Lighting and Projection techniques:

- TH ART 22, Stage Lighting (3)
 TH ART 23, Projection and Lighting Design (3)
 TH ART 25, Introduction to Theatrical Sound (3)

This is a stackable certificate that can be used as a stepping stone toward obtaining a Certificate of Achievement or an Associate degree in Technical Theatre.

Transfer

See General Education
See Liberal Arts
See Science

Turkish

See Modern Languages

Urban Studies

See Geography

Women's Studies (Historical)

The Women's Studies Associate degree is available to students who enrolled at SMC in fall 2019 or earlier and who have maintained catalog rights. (See page 34 for definition of catalog rights.) For Women's Studies Associate degree requirements, please see the 2016-17 SMC catalog.

Zoology

See Biological Sciences