



# Catalog 2015-2016

## Addendum No.1

The following information was inadvertently omitted from the Catalog 2015-2016. Please attach this addendum to your current catalog.

### NEW PROGRAM

#### Elementary Teacher Education

##### Associate in Arts for Transfer Transfer Preparation \* (Major Code: 01407)

Designed to prepare students for transfer into a Liberal Studies program at a four-year university by offering students a breadth of study relevant to a California Elementary (Multiple Subject) Teaching Credential. Additional requirements for the Elementary Teacher Education major vary at each CSU campus. Students should verify the major preparation required at the CSU they wish to attend with a counselor.

#### Program Student Learning Outcome Statement:

- Assess the personality traits necessary to become a successful teacher and evaluate whether teaching is an appropriate career.

#### Required Core

ED 200	Teaching as a Profession	3
<b>OR</b>		
ENGL 200	Teaching as a Profession	3
CD 170	Principles of Child Development	3
BIOL 100	Principles of Biology	3
<b>AND</b>		
BIOL 101	Principles of Biology Laboratory	1
PHS 101	introduction to the Physical Sciences	3
<b>AND</b>		
PHS 101L	Introduction to Physical Science Laboratory	1
GEOL 104	Introduction to Earth Science	3
GEOL 101	General Geology Laboratory	1
MATH 110	Mathematics for Elementary School Teachers I	4
COMM 104	Public Speaking	3
ENGL 115	College Composition: Reading and Writing Analytically	4
ENGL 220	Introduction to Literature	3
GEOG 106	World Regional Geography	3
HIST 106	World History I	3
HIST 100	American Civilization I	3
PS 102	Introduction to American Government and Politics	3

#### List A Select One Course (3-4 Units)

ENGL 116	Critical Thinking and Composition	4
<b>OR</b>		
PHIL 103	Logic and Critical Thinking	3
<b>OR</b>		
COMM 160	Argumentation and Debate	3

#### List B Select One Course (3 units)

ART 104	Introduction to Art	3
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TA 101	Introduction to the Theatre	3
ART 151	Art History---Renaissance to Contemporary	3

#### List C (0-10 additional units- if needed)

Any courses not selected above. Any course that is articulated as lower division preparation for the Liberal Arts, Integrated Teacher Education, or other similar major at a CSU.

MATH 111	Mathematics for Elementary School Teachers II	4
<b>OR</b>		
MATH 112	Children's Mathematical Thinking	1
<b>OR</b>		
ES/T 200	Physical Education for Elementary School	2
<b>OR</b>		
MUS 103	Musicianship for General Elementary Teachers	3

**Total units 50.00 - 60.00**

#### NOTE:

- Additional requirements for the Elementary Teacher Education major vary at each CSU campus. It is highly recommended that students meet with counselors to discuss courses that are required by local CSU campuses and encourage students to take some of these additional courses prior to transfer.
- This TMC has been designed to meet the introductory content area subject matter requirements for teaching at the elementary school level. Careful consideration was given to identify a specific match to CSU general education requirements for transfer.
- Due to considerable overlap between the major requirements and general education (GE), this TMC presumes that all courses in the TMC do fill the indicated CSU-GE requirement. If the courses at a given college do not currently fill all the indicated GE requirements, colleges may want to pursue further CSU-GE approval, or a TMC-aligned degree may not be possible within the SB 1440-mandated 60 unit maximum for the total degree.

#### Journalism

##### Associate in Arts Transfer Transfer Preparation \* (Major Code: 01435)

Prepares students for four-year programs leading to Bachelor's degrees and eventual careers in such fields as newspaper or magazine reporting and editing, book editing, industrial journalism, public relations, advertising, radio and television writing, teaching, and communication research. The courses give students an awareness of the impact of mass media on their lives and an understanding of the skills, concepts, and values used by professional communicators.

#### Required Core

JOUR 101	Introduction to Mass Communication and Society	3
<b>OR</b>		
COMM 200	Introduction to Mass Communication and Society	3

JOUR 151	News Reporting and Writing	3
JOUR 200	Campus Newspaper Production I	4

**List A. Select one course (4 units):**

JOUR 201	Campus Newspaper Production II	4
JOUR 202	Campus Newspaper Production III	4

**List B. Select two courses (6-8 units):**

MATH 119	Elementary Statistics	4
PSYC 270	Statistical Methods of Psychology	3
<b>OR</b>		
SOC 270	Statistical Methods of Sociology	3
COMM 103	Oral Communication	3
ECON 101	Principles of Economics I	3
<b>OR</b>		
ECON 102	Principles of Economics II	3
PS 102	Introduction to American Government and Politics	3
PS 103	Introduction to Comparative Government	3
ENGL 116	Critical Thinking and Composition	4
PHIL 103	Logic and Critical Thinking	3
COMM 160	Argumentation and Debate	3

**Total units 19.00 - 22.00**

**Spanish**

**Associate in Arts Transfer  
Transfer Preparation \* (Major Code: 01462)**

Knowing Spanish gives one the power to successfully communicate with the people of twenty-one Spanish-speaking countries, as well as 20 million Spanish speakers in the United States. After English, Spanish is the most studied language in Europe and Asia as well. In today's business world, Spanish is widely used as a valuable tool of communication for commercial transactions in the global market. It is one of the five official languages in the United Nations.

The benefit for students completing an Associate in Arts in Spanish for Transfer Degree is that the California State University (CSU) system is required by CEC section 66747 to "guarantee admission with junior status to any community college student who meets all of the requirements". CSU is required to grant priority admission for a student with this associate degree "to his or her local [CSU] campus and to a program or major that is similar to his or her community college major or area of emphasis, as determined by the [CSU] campus to which the student is admitted."

A student admitted under this article shall receive priority over all other community college transfer students, excluding community college students who have entered into a transfer agreement between a community college and the California State University prior to the fall term of the 2012-13.

This degree may not be the best option for students intending to transfer outside of the locally defined CSU service area or to a university or college that is not part of the CSU system. Students should consult with a Southwestern College counselor for admission requirements specific to an intended transfer university.

**Program Student Learning Outcome Statement:**

- Initiate, sustain and close a variety of uncomplicated communicative tasks in the target language, and handle social situations in a culturally sensitive and collegial manner.

**REQUIRED CORE (18-20 units)  
OPTION 1- Spanish for Bilinguals**

SPAN 215	Spanish for Bilinguals I	5
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SPAN 216	Spanish for Bilinguals II	5
SPAN 221	Introduction to Literature for Bilinguals	5
SPAN 225	Intermediate Conversation and Writing on Spanish Culture	3
<b>OR</b>		
SPAN 226	Intermediate Conversation and Writing on Latin American Culture	3

**Total units 18.00**

**Plus an additional 3 units from List A (below) 3  
OPTION 2- Spanish for Non-Native Speakers:**

SPAN 101	Elementary Spanish I	5
SPAN 102	Elementary Spanish II	5
SPAN 201	Intermediate Spanish I	5
SPAN 202	Intermediate Spanish II	5

**Total units 20.00**

**Plus an additional 3 units from List A (below) 3  
List A: Select one course to complete the Spanish ADT (3 units):**

SPAN 225	Intermediate Conversation and Writing on Spanish Culture	3
SPAN 226	Intermediate Conversation and Writing on Latin American Culture	3
ENGL 271	Latin American Literature	3
ENGL 272	Chicano Literature 3	3
ENGL 274	Literature of the U.S. - Mexico Borderlands and Baja California	3
HIST 141	Mexican-American History I	3
MAS 141	Mexican-American History I	3
HIST 142	Mexican-American History II	3
MAS 142	Mexican-American History II	3
ANTH 112	Cultures of Mexico	3
MAS 150	Mexican and Mexican-American Cultures in the United States	3
SOC 150	Mexican and Mexican-American Cultures in the United States	3

**PROGRAM MODIFICATION**

Replace on page 121

**Anthropology**

**Associate in Arts  
Transfer Preparation \* (Major Code: 01720)**

Lower-division requirements are not the same for all universities, and there are differences among the areas of specialization. However, the courses listed below meet the lower-division requirements for most universities offering a bachelor's degree with a major in anthropology.

**Program Student Learning Outcome Statement:**

- Student will be able to identify and analyze perspectives, major research, trends, cultural significance, and issues pertaining to the scientific evaluation of the human species from the anthropological approach.

ANTH 101	Biological Anthropology	3
ANTH 102	Cultural Anthropology	3
ANTH 103	Archaeology and Prehistory	3
PSYC 270	Statistical Methods of Psychology	3
<b>OR</b>		
SOC 270	Statistical Methods of Sociology	3

<b>Foreign language or Anthropology electives to total six units</b>	6
<b>Total units</b>	<b>18</b>

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## Architecture

### Associate in Science

#### Transfer Preparation \* (Major Code: 01940)

Designed to provide the student with the creative problem-solving skills and critical thinking processes necessary to successfully complete upper-division baccalaureate work leading to the professional bachelor of architecture degree.

The curriculum fulfills most of the first and second year requirements at some CSU, US, and other baccalaureate institutions. Academic placement at the transfer institution is based upon evaluation of a portfolio of the student's work.

Students will be required to develop a portfolio of their work for purposes of evaluation by the transfer institution. The courses listed are the architecture courses required to obtain the associate degree in architecture. Students wishing to transfer to the California State University should follow, General Education Breadth Requirement California State University.

Students should review specific course requirements of the transfer institution and consult with a counselor as to which courses taken at Southwestern College will articulate to their chosen college.

#### Program Student Learning Outcome Statement:

- Develop and expand their technological skill-set and professional practices through the use of state-of-the-art equipment and software consistent with our profession.
- Enhance their international perspective by direct involvement in classroom discussions, design programs, design projects, historical design issues and cultural and social perspectives that are global in scope, including issues of sustainability and environmental sensitivity.
- Develop a greater sense of self-awareness and interpersonal skills by required participation in team projects. .
- Further enhance critical communication skills by requiring them to express not only their solution to design problems, but also demonstrating the process of arriving at these solutions, orally, graphically and three-dimensionally to professionals and fellow students.
- Develop critical thinking skills in a problem/project based curriculum that requires solving spatial, social, engineering and sustainable design problems by developing creative and individual solutions.

#### FIRST SEMESTER

ARCH 110 Freehand Drawing	3
ARCH 115 Architectural Graphics	3
ARCH 150 Architectural Design I	5

#### SECOND SEMESTER

ARCH 112 Architectural Rendering	3
ARCH 151 Architectural Design II	3
ARCH 165 Architectural Practice I	3

#### THIRD SEMESTER

ARCH 200 Introduction to Computer Aided Design	3
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### OR

ARCH/SES 201	Beginning Building Information Modeling	3
ARCH 235	Structures	3
ARCH 252	Architectural Design III	3
ARCH 265	Architectural Practice II	3

#### FOURTH SEMESTER

ARCH 222	Environmental Controls	2
ARCH 253	Architectural Design IV	3
ARCH 266	Architectural Practice III	2

**Total units** **39**

Recommended Electives: ARCH 204, 205, 208, 210

To earn an associate degree, additional General education and Graduation Requirements must be completed.

\* Students planning to transfer to a four-year college or university should complete courses specific to the transfer institution of choice. University requirements vary from institution to institution and are subject to change. Therefore, it is important to verify transfer major preparation and general education requirements through consultation with a counselor in either the Counseling Center or Transfer Center.

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## Architecture Technology

### Associate in Science

#### Career/Technical \* (Major Code: 02840)

Designed to provide the student with the skills and technical knowledge required for employment as technicians in the environmental design departments of architecture, landscape architecture, urban planning, and environmental research. Students also are placed within the building construction industry and its allied professions.

#### Program Student Learning Outcome Statement:

- Develop and expand their technological skill-set and professional practices through the use of state-of-the-art equipment and software consistent with our profession.
- Enhance their international perspective by direct involvement in classroom discussions, design programs, design projects, historical design issues and cultural and social perspectives that are global in scope, including issues of sustainability and environmental sensitivity.
- Develop a greater sense of self-awareness and interpersonal skills by required participation in team projects.
- Further enhance critical communication skills by requiring them to express not only their solution to design problems, but also demonstrating the process of arriving at these solutions, orally, graphically and three-dimensionally to professionals and fellow students.
- Develop critical thinking skills in a problem/project based curriculum that requires solving spatial, social, engineering and sustainable design problems by developing creative and individual solutions.

#### FIRST SEMESTER

ARCH 110 Freehand Drawing	3
ARCH 115 Architectural Graphics	3

ARCH 150 Architectural Design I 5

**SECOND SEMESTER**

ARCH 112 Architectural Rendering 3  
 ARCH 151 Architectural Design II 3  
 ARCH 165 Architectural Practice I 2

**THIRD SEMESTER**

ARCH 200 Introduction to Computer Aided Design 3  
**OR**  
 ARCH/SES 201 Beginning Building Information Modeling 3  
 ARCH 235 Structures 3  
 ARCH 265 Architectural Practice II 2

**FOURTH SEMESTER**

ARCH 209 Construction Surveying 3  
 ARCH 210 World Architecture II 3  
 ARCH 222 Environmental Controls 2  
 ARCH 266 Architectural Practice III 2

**Total units 37**

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**Architecture Technology—Basic**

**Certificate of Achievement**

**Career/Technical \* (Major Code: 0A2842)**

**Program Student Learning Outcome Statement:**

- Develop and expand their technological skill-set and professional practices through the use of state-of-the-art equipment and software consistent with our profession.
- Enhance their international perspective by direct involvement in classroom discussions, design programs, design projects, historical design issues and cultural and social perspectives that are global in scope, including issues of sustainability and environmental sensitivity.
- Develop a greater sense of self-awareness and interpersonal skills by required participation in team projects.
- Further enhance critical communication skills by requiring them to express not only their solution to design problems, but also demonstrating the process of arriving at these solutions, orally, graphically and three dimensionally to professionals and fellow students.
- Develop critical thinking skills in a problem/project based curriculum that requires solving spatial, social, engineering and sustainable design problems by developing creative and individual solutions.

**GAINFUL EMPLOYMENT:**

The U.S. Department of Education requires colleges to disclose a variety of information for any financial aid eligible program that "prepares students for gainful employment in a recognized occupation."

Students who complete this program will have acquired the necessary analytical tools to successfully secure gainful employment in the field of study.

3/22/2016

For more information regarding the data provided for this program and what it means to you as a student, please feel free to visit our SWC Gainful Employment website at: [www.swccd.edu/gainfulemployment](http://www.swccd.edu/gainfulemployment)

**FIRST SEMESTER**

~~ARCH 110 Freehand Drawing 3~~  
 ARCH 115 Architectural Graphics 3  
 ARCH 150 Architectural Design I 5

**SECOND SEMESTER**

ARCH 112 Architectural Rendering 3  
 ARCH 151 Architectural Design II 3  
 ARCH 165 Architectural Practice I **2-3**

**THIRD SEMESTER**

ARCH 200 Introduction to Computer Aided Design 3  
~~**OR**~~  
~~ARCH/SES-204~~  
~~Beginning Building Information Modeling (3)~~  
 ARCH 235 Structures 3  
 ARCH 265 Architectural Practice II **2-3**

**FOURTH SEMESTER**

**ARCH 201 Beginning Building Information Modeling 3**  
~~ARCH 209 Construction Surveying 3~~  
~~ARCH 210 World Architecture II 3~~  
 ARCH 222 Environmental Controls 2  
~~ARCH 266 Architectural Practice III 2~~

**Total units 37 31**

**Recommended Electives: ARCH 204, 205**

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**Business Administration**

**Associate in Science**

**Transfer Preparation \* (Major Code: 01105)**

This degree prepares students for transfer admission to any California State University campus within the field of Business Administration. This major is designed to equip students with the knowledge, skills, practices, and values to understand the complex and changing global business environment.

Individual courses promote comprehension of the field, foster problem solving, and provide basic analytical and conceptual skills.

In addition to meeting the requirement for transfer to any California State University (such as SDSU, for example), the courses listed meet the lower-division requirements for most universities offering a bachelor's degree with a major in business or accounting.

**REQUIRED CORE (17 UNITS)**

BUS 140 Business Law/The Legal Environment of Business 3  
 ECON 101 Principles of Economics I 3  
 ECON 102 Principles of Economics II 3  
 ACCT 101 Principles of Accounting I 4  
 ACCT 102 Principles of Accounting II---Managerial 4

**List A (4 units) (select one)**

MATH 119 Elementary Statistics 4  
**OR**  
 MATH 120 Calculus for Business Analysis 4

**LIST B (8 units) (select two - and any course from List A not already used)**

CIS 101 Introduction to Computers and Information 4  
~~BUS 212 -Business Communication Processing 3~~

MATH 119 Elementary Statistics 4  
**OR**

MATH 120 Calculus for Business Analysis 4

**Total units 28-29**

\* Students planning to transfer to a four-year college or university should complete courses specific to transfer institution of choice. University requirements vary from institution to institution and are subject to change. Therefore, it is important to verify transfer major preparation and general education requirements through consultation with a counselor in either the Counseling Center or Transfer Center.

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**Entrepreneurship and Small Business--- Intermediate**

**Certificate of Achievement Career/Technical \* (Major Code: A01155)**

Designed for either prospective and current owners or managers of a small business. Emphasizes further development of skills learned in the basic program to enhance the concepts of bookkeeping, law, small business operations management, and the promotion and sale of products and/or services.

**Program Student Learning Outcome Statement:**

- Students will describe and summarize entrepreneur business solutions in creating a small business opportunity.

**GAINFUL EMPLOYMENT:**

The U.S. Department of Education requires colleges to disclose a variety of information for any financial aid eligible program that "prepares students for gainful employment in a recognized occupation."

Students who complete this program will have acquired the necessary analytical tools to successfully secure gainful employment in the field of study.

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ACCT 7 Basic Business Bookkeeping 3  
**OR**  
 ACCT 12 Computerized Accounting 3  
**OR**  
 BUS 120 Introduction to Business 3  
**OR**  
 BUS 134 eBusiness I: Principles of Electronic Commerce 3  
 BUS 140 Business Law/The Legal Environment of Business 3  
 BUS 142 Business Ethics---Corporate and Personal 1  
 BUS 144 Advertising and Promotional Strategy (1)  
**OR**  
 BUS 147 Successful Selling Techniques (1) 1-3  
**OR**

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BUS 174 Introduction to Marketing and Social Media Practices (3)  
 BUS 145 Financial Management for Small Business 1  
 BUS 211 Communication in Business and Industry 3  
**OR**  
 BUS 212 Business Communication  
 BUS 290-293 Work Experience in Business I-IV (2-4) 2

**Plus completion of the Entrepreneurship and Small Business--Basic Certificate Program. 13 - 16**

**Total units 33-38-30-35**

It is recommended that students complete the Entrepreneurship and Small Business--Basic Certificate Program plus half of the courses required for the Entrepreneurship and Small Business--Intermediate certificate program prior to enrolling in BUS 290-293.

Replace on page 153

**Child Development Teacher Permit Certificate**

**Certificate of Achievement Transfer Preparation \* (Major Code: B2722)**

Designed to prepare students as preschool teachers and qualify for State Permit on the Teacher Permit level.

**Program Student Learning Outcome Statement:**

- Upon completion of the program students will be able to apply and identify major concepts of child development and demonstrate the skills necessary to guide young children in a classroom context.

**GAINFUL EMPLOYMENT:**

The U.S. Department of Education requires colleges to disclose a variety of information for any financial aid eligible program that "prepares students for gainful employment in a recognized occupation."

Students who complete this program will have acquired the necessary analytical tools to successfully secure gainful employment in the field of study.

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**FIRST SEMESTER**

CD 170 Principles of Child Development 3  
 CD 170L Principles of Child Development Laboratory 1  
 CD 284 Child, Family, and Community 3  
**OR**  
 CD 135 Principles of Family Development  
 CD 283 Emerging Literacy 3

**SECOND SEMESTER**

CD 180 Observation and Guidance for Child Development 3  
 CD 181 Curriculum Planning for Child Development 3  
 CD 184 Observation and Documentation 3  
 Complete 3 units from Group 1 3

### THIRD SEMESTER

CD 282A	Child Development Field Practicum	3
ENGL 115	College Composition: Reading and Writing Analytically (4)	
<b>OR</b>		
SPAN 101	Elementary Spanish I (5)	3-5
<b>OR</b>		
SPAN 215	Spanish for Bilinguals I (5)	
<b>OR</b>		
COMM 103	Oral Communication (3)	6
<i>Complete 6 units from Group 2</i>		

### FOURTH SEMESTER

CD 282B	Advanced Child Development Field Practicum	3
BIOL 140	Environmental Biology (3)	
<b>OR</b>		
LNT 100	Plant and Horticulture Science (4)	3-4
<b>OR</b>		
SOC/ PSYC 270	Statistical Methods of Sociology (3)	
<b>OR</b>		
MATH 101	College Algebra (3)	

**Complete 6 units from Group 3 (or 3 units if SPAN 101 or 215 were completed)** 3-6

**Total units 43-49**

#### Group 1

CD 130	Math for Young Children	1
<b>AND</b>		
CD 131	Science for Young Children	1
<b>AND</b>		
CD 132	Technology for Young Children	1
<b>OR</b>		
CD 173	Development of Infants and Toddlers	3
CD 175	Nutrition, Health, and Safety for Children	3
CD 176	Music and Movement for Young Children	3
CD 275	Art for Children	3
CD 279	Early Education Service Learning in a Global Environment	3

**OR** 3  
LDR 279 Early Education Service Learning in a Global Environment

#### Group 2

ART 101	Design I	3
ART 104	Introduction to Art	3
ENGL 270	Multicultural Literature	3
MUS 105	Introduction to Music	3
MUS 195	World Music	3

#### Group 3

PSYC 101	General Psychology	3
SOC 101	Introduction to Sociology	3
HIST 104	Western Civilization I	3
HIST 141	Mexican-American History I	3
PS 101	Introduction to Political Science	3

\* (Eligible for Spanish Proficiency Certificate)

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## Geospatial Technology Technician

Certificate of Achievement  
Career/Technical \* (Major Code: A1772)

The following certificate track is designed for students seeking an entry-level position as a Geospatial Technology Technician. The program introduces both geospatial concepts and applications (including Geographic Information Systems (GIS), remote sensing, and image analysis). Special emphasis is on hands-on experience with the hardware, software, and techniques employed in science, industry, and academia. All of the core courses in this certificate track are short-track (8-weeks in length) and 100% online; the internship course (GEOG 153) will take place on campus or at a private or public entity.

Geospatial Technology integrates innovative tools and techniques that enables users to view and analyze temporal and spatial information in an exciting, dynamic, and productive fashion. Ultimately, geospatial technology (including GIS, remote sensing, and image analysis) helps one solve problems by looking at data in a way that is readily understood and easily shared. Today, a significant need exists within the workforce for personnel trained as Geospatial Technology Technicians. For further information visit <http://www.swccd.edu/~gis> or contact Professor Ken Yanow ([kyanow@swccd.edu](mailto:kyanow@swccd.edu)).

### Program Student Learning Outcome Statement:

- Students will be able to communicate their understanding and analysis results by making maps, writing research papers and technical reports, and developing multimedia presentations. Specifically, they should be able to demonstrate the principles of cartography and the convention of map making.
- Students will develop capabilities and technical skills to apply scientific research methods (in both natural and social sciences) to observe, collect, and process geographic data; to perform analysis based on the knowledge, theories and principles in geography; and to draw quantitative and qualitative conclusions. Specifically, they should be able to demonstrate the following: The capability to observe, collect, and process geographic data with state of the art technology, including GIS, Remote Sensing, GPS, field data collection instruments, as well as obtaining data from document and literature.
- Students should be able to demonstrate the capability to perform data analysis based on critical thinking skills and use of technical and quantitative methods, including GIS, Remote Sensing, modeling software, and statistical methods.

### GAINFUL EMPLOYMENT:

The U.S. Department of Education requires colleges to disclose a variety of information for any financial aid eligible program that "prepares students for gainful employment in a recognized occupation."

Students who complete this program will have acquired the necessary analytical tools to successfully secure gainful employment in the field of study.

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GEOG 145	Introduction to Mapping and Geographic Information Systems (GIS)	3
GEOG 150	Exploring Our World—Maps and Geospatial Science	3
GEOG 152	GIS—Project Design and Applications	3
GEOG 154	Introduction to Remote Sensing	3
<b>OR</b>		
PHS 154	Introduction to Remote Sensing	3
GEOG 155	Introduction to Image Analysis	3
<b>OR</b>		
PHS 155	Introduction to Image Analysis	3

**Total units**

~~17-19~~ 18

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**Floral Design Emphasis**

**Certificate of Achievement**  
**Transfer Preparation \* (Major Code: 02823)**

**Program Student Learning Outcome Statement:**

- Graduates of this program will be able to plan, organize, and develop a budget for the floral arrangements for a convention or business event.

**GAINFUL EMPLOYMENT:**

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**REQUIRED MAJOR COURSES**

LNT 100	Plant and Horticultural Science	4
LNT 106-112	Plant Identification courses	1
LNT 136	Plant Pest and Disease Control	3
LNT 138	Floral Design I	3
<del>BUS 148</del>	<del>Developing and Starting a New Business</del>	<del>3</del>
<b>OR</b>		
<del>BUS 144</del>	<del>Advertising and Promotional Strategy</del>	<del>1</del>
<b>AND</b>		
<del>BUS 145</del>	<del>Financial Management for Small Business</del>	<del>1</del>
<b>AND</b>		
<del>BUS 147</del>	<del>Successful Selling Techniques</del>	<del>1</del>
<del>GOMM 174</del>	<del>Interpersonal Communication</del>	<del>3</del>
<del>PD 290-293</del>	<del>Occupational Cooperative Education I-IV</del>	<del>8</del>
<del>LNT 95</del>	<del>Portfolios, Presentations, and Consultations for Floral Design</del>	<del>1</del>
<del>LNT 110</del>	<del>Plant Identification: Annuals and Perennials I</del>	<del>1</del>
<del>LNT 118</del>	<del>Plant Identification for Floral Design</del>	<del>1</del>
LNT 140	Floral Design II	3
LNT 141	Floral Design III (1)	
<b>OR</b>		1-2
LNT 147	Wedding Design and Event Planning (2)	
PD 290-293	Occupational Cooperative Education I-IV	8
<b>Plus Common Core courses for Nursery Occupations</b> <del>16</del>		
Complete 11 units from Electives		11

**Total units** ~~37-38~~ 36

Recommended Electives: ~~BUS 174~~, LNT 95, 118, 146, 148, ART 121, BUS 144, 145, 147, 148, COMM 174

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**Surgical Technology**

**Certificate of Achievement**  
**Career/Technical \* (Major Code: 02346)**

Prepares the student to function in operating rooms under the direct supervision of physicians and nurses. A major portion of the learning experience will take place in hospital operating rooms.

**Program Student Learning Outcome Statement:**

- Upon completion of the program, the student will demonstrate the ability to articulate professionally and competently in perioperative setting.
- Upon completion of the program, the student will demonstrate the ability to analyze patient data related to their surgical condition and adjust the patient's intraoperative plan of care according to the findings.
- Upon completion of the program, the student will analyze, compute and adjust operative equipment and instrument settings for the surgical patient in the perioperative setting.
- Upon completion of the program, the student will demonstrate collegiality and appropriate communication techniques when working with diverse healthcare providers and patients in the perioperative setting.
- Upon completion of the program, the student will demonstrate critical thinking skills and differentiation in provision of intraoperative care for patients from various cultural backgrounds.

**GAINFUL EMPLOYMENT:**

The U.S. Department of Education requires colleges to disclose a variety of information for any financial aid eligible program that "prepares students for gainful employment in a recognized occupation."

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**PREREQUISITES**

Acceptance into the Surgical Technology program

BIOL190	Human Anatomy and Physiology (4)	
<b>OR</b>		4-7
BIOL 260	Human Anatomy (4)	
<b>AND</b>		
MEDOP 230	Medical Technology (3)	

**FIRST SEMESTER**

ST 110	Introduction to Surgical Technology	8
ST 120	Surgical Laboratory	4

**SECOND SEMESTER**

ST 130	Advanced Operating Room Techniques	4
ST 140	Practicum: Major Surgical Specialties	8
ST 150	Current Concepts in Surgical Technology	1

**SUMMER SESSION**  
ST 160 Practicum: Subspecialties 6

**Total units 32–35**

**Total units 38** **35–**

Recommended Electives: BUS 147, 174, 183, 210; ELEC 10A, 10B, 14; TELE 114, 115, 132, 233, 234, 242, 240; HLTH 101.

Replace on page 322

To earn an associate degree, additional general education and graduation requirements must be completed. See page 62.

## Telemedia Production Specialist

**Associate in Science**  
**Career Technical \* (Major Code: 02530)**

Prepares students to pursue careers as telemedia specialists and media production consultants in telecommunications, public relations, industry, education, government, and medical institutions. Students will learn needs analysis, scripting, graphics, studio and field production, and editing as applied to the production of media, such as instructional, documentary, and broadcast.

### Program Student Learning Outcome Statement:

- Students will utilize Production Books to communicate the design, acquisition and post production requirements to their team members in order to produce complete motion picture productions.
- By undertaking a comprehensive video production students will participate in a collaborative environment that promotes the sharing and evaluation of creative contributions.
- Students will demonstrate their understanding of fundamental pre-production, production and post-production concepts by completing a three to five minute video project which will integrate camera, lighting, sound and editing techniques.

ART 121 Darkroom and Digital Photography I (3)  
**OR** 3–4

TELE 100 Fundamentals of Film/Video Cameras  
and Recorders (2)

**AND**  
TELE 101 Fundamentals of Film and Video Editing (2)  
TELE/HUM 112 Culture and the Media (3)

**OR** 3  
TELE 113/ART 130 History of Film as Art (3)

**OR**  
TELE 114/COMM 185 Cinema as a Form of Expression and  
Communication

TELE/ COMM 180 Introduction to Electronic Media 3

ART 159 Graphic Design—Layout 3

TELE 110 Writing for Film and Electronic Media 3

TELE/ART 131 Introduction to Video and Film  
Production 3

TELE/MUS 151/RA&T 120 Recording Techniques 3

TELE 163 Video Post-production and Special Effects 3

TELE/TA 150 Introduction to Design and Production 3

TELE 183 Video Studio Production 3