
A

STUDENT GUIDE TO COMPLETION

ALIGNING COLLEGE-LEVEL DEGREES WITH
HIGH SCHOOL ENDORSEMENTS



WELCOME

STUDENT GUIDE TO COMPLETION

To our Students:

At South Texas College we know that selecting an educational pathway that will lead you through college and into an unknown future is difficult to do, especially at a young age. To support your educational endeavors, we created the *Student Guide to Completion* to help you identify and align your personal and professional goals and aspirations with the most appropriate educational pathway.

Whether you're mapping forward from your current interests, or backward from your intended career field, this *Guide* is designed to help you select the most appropriate High School Endorsement, Dual Credit college courses, and a college major.

This *Guide* is divided into five color-coded sections, each representing a starting point.

1. Career Cluster/Field of Study
2. South Texas College Dual Credit Programs
3. South Texas College Meta-Major/Program Cluster
4. South Texas College Degree Option (Certificate/Associate)
5. Bachelor Program

You can choose to explore your education pathway at any point to determine if it best fits your career goals.

The *Guide* can thus be read top to bottom (beginning with what you're interested in, and exploring further opportunities that build on those interests), or bottom to top (beginning with your career goal in mind, and mapping back to how you can get started).

To our ISD Partners:

This *Guide* has been developed partially in response to Texas state legislation requiring institutions of higher education to assist high school students, parents/guardians, and counselors to make informed choices about which educational pathways are right for them.

Throughout this *Guide*, you will notice colored "Stars", which signifies that the particular degree is categorized as a Dual Enrollment Academy Program or is tied to an Industry-Based certification. Refer to the Definitions page for more information.






TABLE OF CONTENTS

South Texas College Meta-Majors/Program Clusters	04
Arts & Humanities Endorsement	
American Sign Language.....	06
Fine & Performing Arts.....	07
Humanities.....	11
Social & Behavioral Sciences.....	16
Business & Industry Endorsement	
Agriculture, Food & Natural Resources - <i>NOT OFFERED at STC</i>	
Architecture & Construction.....	22
Arts, Audio/Video Technology & Communications.....	26
Business Marketing & Finance.....	27
Energy - <i>NOT OFFERED at STC</i>	
Hospitality & Tourism.....	33
Information Technology.....	36
Manufacturing.....	45
Transportation, Distribution & Logistics.....	49
Business Administration.....	52
Public Service Endorsement	
Early Training.....	55
Teaching & Training - <i>NOT OFFERED at STC</i>	
Health Science.....	56
Human Services - <i>NOT OFFERED at STC</i>	
Law & Public Services.....	63
Education.....	68
Kinesiology.....	70
Psychology.....	71
Social Work.....	72
Criminal Justice.....	73
Science, Technology, Engineering & Mathematics Endorsement	
Science, Technology, Engineering & Mathematics.....	76
Computer Science.....	79
Mathematics.....	81
Biology.....	82
Chemistry.....	83
Engineering.....	84
Physics.....	85
Pre-Pharmacy.....	86
Multi-Disciplinary Endorsement	
Associate of Arts Degrees.....	88
Associate of Science Degrees.....	89
Multi-Disciplinary - Associate of Arts Degree.....	90
Multi-Disciplinary - Associate of Science Degree.....	91
Definitions	92
Contact Information	93

Meta-Majors Program



Every program of study (also known as a college major) at South Texas College belongs to a Meta-Major Program Cluster. The table below illustrates the relationship between the High School Endorsement and the 10 Meta-Major Program Clusters.

High School Endorsement	South Texas College Meta-Majors Program Clusters
 Arts & Humanities	4. Fine & Performing Arts 6. Humanities 9. Social & Behavioral Sciences
 Business & Industry	1. Business 10. Technology
 Public Service	3. Education & Kinesiology 5. Health Sciences 8. Public Safety
 Science, Technology, Engineering & Math (STEM)	2. Computer & Information Technology 5. Health Sciences 7. Math, Science, & Engineering
 Multi-Disciplinary	

ARTS & HUMANITIES

PATHWAY

American Sign Language	
• American Sign Language.....	06
Fine & Performing Arts	
• Music.....	07
• Drama.....	08
• Graphic Arts.....	09
• Visual Arts.....	10
Humanities	
• English.....	11
• History.....	12
• Language & Cultural Studies.....	13
• Mexican American Studies.....	14
• Philosophy.....	15
Social & Behavioral Sciences	
• Anthropology.....	16
• Communication.....	17
• Political Science.....	18
• Sociology.....	19



ARTS & HUMANITIES PATHWAY

Career & Technical Education Track: *American Sign Language*

Career Cluster/Field of Study:
American Sign Language

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses

- General Education Courses (15 credit hours)

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Humanities

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

N/A

Associate Level

- Sign Language Interpreting Studies, AAS,
60 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:
Transfer to a 4 Year University

BACHELOR
PROGRAM

5

The Associate of Applied Science degree in the Sign Language Interpreter Specialization is comprised of a combination of technical and general education courses. The degree requires 63 credit hours of designated coursework. Students must take a mid-program evaluation, the State Certification Basic Exam, as well as a program exit exam in order to complete the degree requirements. Students are expected to maintain a 2.5 grade point average (GPA) in all program coursework. Students interested in pursuing the Associate of Applied Science degree are required to consult with department staff before registering for any Sign Language classes. The Sign Language Interpreter option is for individuals seeking employment as an interpreter. An interpreter is one who facilitates communication between persons who do not share the same language. Interpreting between Deaf and Hearing cultures is a process of communicating spoken English messages into American Sign Language or Signed English as well as rendering American Sign Language or Signed English messages into spoken English.

ARTS & HUMANITIES PATHWAY

Transfer Track: *Fine & Performing Arts*

Career Cluster/Field of Study:
Music

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses

- Core Curriculum Courses (29 credit hours)

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Fine & Performing Arts

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

College Level

Certificate Level

N/A

Associate Level

- Music, AA, 60 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

Bachelor Program:
Transfer to a 4 Year University

BACHELOR
PROGRAM

5

The Associate of Arts in Music Degree will focus on establishing a solid music foundation in music theory, music literature, applied instrumental and voice lessons, piano proficiency, and participation in solo performances as well as various music ensembles. These foundational studies are in preparation and designed for transferability to higher education institutions by the serious music student wishing to complete a Bachelor of Arts or Bachelor of Music Degree. The Associate of Arts in Music does not transfer as core complete. The student is encouraged to complete the additional coursework during their junior year or at South Texas College before transferring to a university.

ARTS & HUMANITIES PATHWAY

Transfer Track: *Fine & Performing Arts*

Career Cluster/Field of Study:
Drama

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses

- Core Curriculum Courses (42 credit hours)

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Fine & Performing Arts

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

N/A

Associate Level

- Drama, AA, 60 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:
Transfer to a 4 Year University

BACHELOR
PROGRAM

5

The program is intended to enable students to develop the necessary academic, technical and analytical skills that will provide them with a measurable foundation in the basics of sound theater practices. This degree is useful to an individual seeking employment in the entertainment and media industries. As with any liberal arts degree, salaries vary according to the field chosen by the degree holder. With an Associate of Arts (AA) degree in Drama from STC, students will have attained the pre-professional foundation skills necessary to compete for beginning positions as technicians and/or performers. In addition to career options in the field of Drama, students with AA-Drama degrees may also choose to pursue advanced degrees in related fields such as television, film, radio, industrial presentations, arts management, and public relations. The AA and bachelor degrees also serve as the foundation for specialized studies in Drama such as Scene & Lighting Design, Costume Design, Technical Direction, Playwriting, Directing, Performance, Arts Management and Dramaturgy.

ARTS & HUMANITIES PATHWAY

Transfer Track: *Fine & Performing Arts*

Career Cluster/Field of Study:

Graphic Arts

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses

- Core Curriculum Courses (42 credit hours)

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:

Fine & Performing Arts

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

N/A

Associate Level

- Graphic Arts, AA, 60 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:

Transfer to a 4 Year University

BACHELOR
PROGRAM

5

The Associate of Arts with a field of study in Graphic Arts is a program of study that combines studio courses in art and design with a broad range of liberal arts courses. The two-year degree program prepares students for creative positions in the workforce, and provide skills, values, and knowledge in the liberal and creative arts. Additionally, students are prepared for transfer into university bachelor's degree programs and are trained in exhibit and portfolio preparation.

ARTS & HUMANITIES PATHWAY

Transfer Track: *Fine & Performing Arts*

Career Cluster/Field of Study:
Visual Arts



CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses

- Core Curriculum Courses (42 credit hours)

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Fine & Performing Arts

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

N/A

Associate Level

- Visual Arts, AA, 60 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:
Transfer to a 4 Year University

BACHELOR
PROGRAM

5

The Associate of Arts with a field of study in Visual Arts is a program of study that combines studio courses in art and design with a broad range of liberal arts courses. The two-year degree program prepares students for creative positions in the workforce, and provide skills, values, and knowledge in the liberal and creative arts. Additionally, students are prepared for transfer into university bachelor's degree programs and are trained in exhibit and portfolio preparation. *If transferring to another college, check with an advisor to see specific program requirements for the Visual Arts requirement.*

ARTS & HUMANITIES

PATHWAY

Transfer Track: *Humanities*

Career Cluster/Field of Study:

English

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses

- Core Curriculum Courses (42 credit hours)

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:

Humanities

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

N/A

Associate Level

- English, AA, 60 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:

Transfer to a 4 Year University

BACHELOR
PROGRAM

5

The field of study curriculum in English transfers as a block leading to an English minor, a Bachelor of Arts in General Studies, a Bachelor of Arts in English, or a Bachelor of Fine Arts in English. The flexible structure of this field of study provides students an opportunity to explore their own interests in either Literature, Creative Writing, or Technical Writing, while also providing a firm foundation for a minor or major in English. The course load allows students to complete their minor or major at a four-year institution and allows education majors to build the required number of courses within their teaching discipline (which according to Texas Education Agency (TEA) regulations must include 24 credit hours in the teaching discipline to qualify for a teaching position). With a specialization in English, students will be uniquely prepared to succeed in today's competitive job market and will have a variety of employment opportunities available in such fields as technical writing, editing, teaching, and prelaw, as well as numerous professions that require effective communication and analytical skills.

ARTS & HUMANITIES PATHWAY

Transfer Track: *Humanities*

Career Cluster/Field of Study:

History

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses

- Core Curriculum Courses (42 credit hours)

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:

Humanities

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

N/A

Associate Level

- History, AA, 60 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:

Transfer to a 4 Year University

BACHELOR
PROGRAM

5

The Associates of Arts degree with a field of study in History is designated for students planning to transfer to a baccalaureate degree in History or Liberal Arts at four-year institutions. The curriculum includes general academic courses and electives that enable students who intend to major in History to transfer to four-year institutions. Completing a History program can expand opportunities in teaching, museums, archives, government, law school, journalism and other related areas. Instruction in History promotes reading, writing, and critical thinking, as well as development of awareness of how the past has shaped the present.

ARTS & HUMANITIES PATHWAY

Transfer Track: *Humanities*

Career Cluster/Field of Study:
Language & Cultural Studies

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses

- Core Curriculum Courses (42 credit hours)

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Humanities

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

College Level

Certificate Level

N/A

Associate Level

Language & Cultural Studies, AA, 60 credit hours
- American Sign Language
- Spanish

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

Bachelor Program:
Transfer to a 4 Year University

BACHELOR
PROGRAM

5

The Language and Cultural Studies Field of Study is designed to provide students the opportunity to develop and enhance their practical communication skills and cross-cultural understanding that will provide them the foundational coursework required for careers in languages and cultural studies. Furthermore, the field of study will focus on integrating language, culture and literature to help students gain an international perspective for living and working in today's global society. Students declaring a field of study in Languages and Cultural Studies may choose courses in one or both of the following concentrations: American Sign Language and Spanish.

ARTS & HUMANITIES PATHWAY

Transfer Track: *Humanities*

Career Cluster/Field of Study:
Mexican American Studies

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses

- Core Curriculum Courses (42 credit hours)

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Humanities

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

N/A

Associate Level

- Mexican American Studies, AA, 60 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:
Transfer to a 4 Year University

BACHELOR
PROGRAM

5

The Mexican American Studies Associate of Arts degree provides students with an interdisciplinary education that can transition to any Liberal Arts or Humanities baccalaureate degree program at a four-year institution. The interdisciplinary curriculum provides students with the general academic background necessary for success at any four-year institution while providing them with awareness of Mexican American history, culture, political agency, and the formation of the Mexican American identity. The Mexican American Studies degree is especially useful for students planning to work in areas with large Hispanic populations, as it will provide them with a better understanding of the community where they work. Employers value them as bilingual and culturally aware professionals. Earning an Associate of Arts in Mexican American Studies prepares students for multiple career paths in the public and private sectors, including social service, urban planning, non-profits, healthcare, education, and business operations. The Mexican American Studies program not only provides students with cultural awareness, but also an advantage in both a four-year program and the workforce by honing critical thinking, oral, written, and research skills.

ARTS & HUMANITIES PATHWAY

Transfer Track: *Humanities*

Career Cluster/Field of Study:

Philosophy

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses

- Core Curriculum Courses (42 credit hours)

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:

Humanities

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

College Level

Certificate Level

N/A

Associate Level

- Philosophy, AA, 60 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

Bachelor Program:

Transfer to a 4 Year University

BACHELOR
PROGRAM

5

The Associate of Arts degree with a field of study in Philosophy is designed for students planning to transfer to a baccalaureate degree in Philosophy or Liberal Arts at four-year institutions. The curriculum includes general academic courses and electives that enable students who intend to major or minor in Philosophy to transfer to four-year institutions with substantial course work completed. Completing a Philosophy program can expand opportunities in teaching, law school, and other related areas while teaching lifetime skills of analysis and multicultural reasoning.

ARTS & HUMANITIES PATHWAY

Transfer Track: Social & Behavior Sciences

Career Cluster/Field of Study:

Anthropology

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses

- Core Curriculum Courses (42 credit hours)

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:

Social & Behavior Sciences

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

N/A

Associate Level

- Anthropology, AA, 60 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:

Transfer to a 4 Year University

BACHELOR
PROGRAM

5

Anthropology is the study of our species (Homo Sapiens), our ancient ancestors, and our near relatives (the primates). Anthropology studies the primordial origins of humans, how we evolved, how we populated the continents over millennia, and why we vary physically and culturally. Anthropology is a holistic science comprised of four subfields: Cultural Anthropology the study of world cultures and unique human adaptations to environments; Physical Anthropology the study of human evolution, genetics, primatology and human variation; Archaeology the study of the material remains of ancient and contemporary civilizations; and, Linguistic Anthropology the study of the biological, historical and cultural foundations of the world's languages. Anthropological career fields include but are not limited to forensics, medical anthropology, agricultural anthropology, museum curation, psychological anthropology, and ethnological film making.

ARTS & HUMANITIES PATHWAY

Transfer Track: Social & Behavior Sciences

Career Cluster/Field of Study:
Communication

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses

- Core Curriculum Courses (42 credit hours)

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Social & Behavior Sciences

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

N/A

Associate Level

Communication, AA, 60 credit hours
- Advertising/Public Relations
- Communication Studies

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:
Transfer to a 4 Year University

BACHELOR
PROGRAM

5

Technology is constantly advancing and new ways to communicate are introduced almost daily. This means there's a constant high demand for prolific public speakers, and knowledgeable behind-the-scenes producers. Why not turn your passion for motivating audiences and your dominance of social media into a rewarding career? A Communication Studies or Advertising/Public Relations degree from South Texas College can be exactly what you need. The Communication Studies and Advertising/Public Relations degrees are designed to produce competence and clarity when applying professional communication skills. Our goal is to shape students into proficient public speakers capable of debating topics effectively and skilled in managing public relations situations professionally.

ARTS & HUMANITIES PATHWAY

Transfer Track: Social & Behavior Sciences

Career Cluster/Field of Study:
Political Science

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses

- Core Curriculum Courses (42 credit hours)

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Social & Behavior Sciences

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

N/A

Associate Level

Political Science, AA, 60 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:
Transfer to a 4 Year University

BACHELOR
PROGRAM

5

The Associate of Arts degree with a field of study in Political Science is designated for students planning to transfer to a baccalaureate degree program in Political Sciences or related field at four-year institutions. The curriculum includes general academic courses and electives that enable students who intend to major in Political Science, Public Affairs, or Public Administration to transfer to four-year institutions. The Political Science program has a foreign language requirement attached to it that will complete most four-year institution requirements. A degree in Political Science prepares students for a wide array of career options. These include public administrator, diplomatic corps member, elected official, legislative aide, policy analyst, journalist, lawyer, lobbyist, public opinion surveyor and college professor.

ARTS & HUMANITIES PATHWAY

Transfer Track: Social & Behavior Sciences

Career Cluster/Field of Study:

Sociology

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses

- Core Curriculum Courses (42 credit hours)

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:

Social & Behavior Sciences

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

N/A

Associate Level

- Sociology, AA, 60 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:

Transfer to a 4 Year University

BACHELOR
PROGRAM

5

Sociology is the study of social life, social change, and the social causes and consequences of human behavior. Sociologists investigate the structure of groups, organizations, and societies, and how people interact within these contexts. Sociologists study how deviance, crime, marriage, family, politics, education, race, gender, and religion affect individuals. The subject matter of sociology ranges from the intimate family to the hostile mob; from organized crime to religious cults; from the divisions of race, gender, and social class to the shared beliefs of a common culture; and from the sociology of work to the sociology of sports. In fact, few fields have such broad scope and relevance for research, theory, and application of knowledge. Since the study of Sociology covers the basic structures of human society with its cultures and stratifications, it is a popular major among those who want to enter career fields that address social change and social support. Examples include: human resources, human services, public relations, government agencies, and any other institution that requires knowledge of social science research.

BUSINESS & INDUSTRY

PATHWAY

Agriculture, Food & Natural Resources

- Agribusiness - *NOT OFFERED at STC*
- Animal Science - *NOT OFFERED at STC*
- Applied Agricultural Engineering - *NOT OFFERED at STC*
- Environmental & Natural Resources - *NOT OFFERED at STC*
- Food Science - *NOT OFFERED at STC*
- Plant Science - *NOT OFFERED at STC*

Architecture & Construction

- Architectural Design..... 22
- Construction Management & Inspection..... 23
- Carpentry - *NOT OFFERED at STC*
- Electrical..... 24
- HVAC & Sheet Metal..... 25
- Masonry - *NOT OFFERED at STC*
- Plumbing & Pipe Lifting - *NOT OFFERED at STC*

Arts, Audio/Video Technology & Communications

- Design & Multimedia Arts - *NOT OFFERED*
- Digital Communications..... 26

Business Marketing & Finance

- Accounting & Financial Services..... 27
- Business Management - Management..... 28
- Business Management - Office Specialist..... 29
- Entrepreneurship..... 30
- Business Management - Payroll Assistant..... 31
- Marketing & Sales..... 32

Energy

- Oil and Gas Exploration & Production - *NOT OFFERED at STC*
- Refining & Chemical Processes - *NOT OFFERED at STC*

Hospitality & Tourism

- Culinary Arts..... 33
- Lodging & Resort Management..... 34
- Travel, Tourism & Attractions..... 35

Information Technology

- Information Technology Support & Services - Computer & Internet Specialist..... 36
- Information Technology Support & Services - Computer Applications Specialist..... 37
- Information Technology Support & Services - Cybersecurity Specialist..... 38
- Information Technology Support & Services - Multimedia Specialist..... 39
- Network Systems - Computer & Internet Specialist..... 40
- Network Systems - Computer Applications Specialist..... 41
- Network Systems - Cybersecurity Specialist..... 42
- Network Systems - Multimedia Specialist..... 43
- Web Development..... 44

Manufacturing

- Advanced Manufacturing & Machinery Mechanics 45
- Manufacturing Technology - *NOT OFFERED at STC*
- Advanced Manufacturing & Machinery Mechanics - Computer & Internet Specialist..... 46
- Welding - Combination Welding..... 47
- Welding - Structural Welding..... 48

Transportation, Distribution & Logistics

- Automotive..... 49
- Aviation Maintenance - *NOT OFFERED at STC*
- Diesel & Heavy Equipment..... 50
- Distribution & Logistics..... 51

Business Administration

- Business Administration - Transfer Plan..... 52



BUSINESS & INDUSTRY PATHWAY

NOT OFFERED AT STC

Career & Technical Education Track: *Agriculture, Food, & National Resources*

Agribusiness
Animal Science
Applied Agricultural Engineering
Environmental & Natural Resources
Food Science
Plant Science

Career & Technical Education Track: *Architecture & Construction*

Carpentry
Masonry
Plumbing & Pipe Lifting

Career & Technical Education Track: *Energy*

Oil and Gas Exploration & Production
Refining & Chemical Processes

Career & Technical Education Track: *Manufacturing*

Manufacturing Technology

Career & Technical Education Track: *Transportation, Distribution & Logistics*

Aviation Maintenance

BUSINESS & INDUSTRY PATHWAY

Career & Technical Education Track: *Architecture & Construction*

Career Cluster/Field of Study:

Architectural Design

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses

- General Education Courses (15 credit hours)

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:

Technology

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

- Architectural & Engineering Design Technology, 18 credit hours
- Architectural & Civil Engineering Technology, 26 credit hours
- Architectural & Visual Technology, 26 credit hours

Associate Level

- Architectural & Civil Engineering Technology, 60 credit hours
- Architectural & Visual Engineering Technology, 60 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:

South Texas College, Technology Management

BACHELOR
PROGRAM

5

The purpose of this program is to prepare the students for employment in architectural, visual, and civil engineering technology industries. The student will be required to have an understanding of but not limited to, the following areas: principles of drafting, architectural drafting, civil drafting, layout and design, application of the latest drawing software programs, current knowledge of building standards and codes, and construction materials and specifications. This program specializes in 3 areas: Architectural & Engineering Design Technology; Architectural & Civil Engineering Technology; and Architectural & Visual Technology.

BUSINESS & INDUSTRY PATHWAY

Career & Technical Education Track: *Architecture & Construction*

Career Cluster/Field of Study:
Construction Management & Inspection

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses

- General Education Courses (15 credit hours)

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Technology

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

- Construction Supervision Assistant, 31 credit hours

Associate Level

- Construction Supervision, AAS, 60 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:
South Texas College, Technology Management

BACHELOR
PROGRAM

5

The Construction Supervision program will prepare students serve as assistants to a construction supervisor or project manager, or supervise and management careers related to various aspects of residential, commercial, and institutional construction projects. The Construction Supervision student will focus on acquiring the skills necessary to monitor, direct and conduct supervision processes to include but not limited to planning, scheduling, coordinating, estimating, and supervising all or part of the construction activities along with the selection, hiring and oversight of specialty trade contractors, as well as accessing risk and safety factors on site. Graduates of the program will be prepared for entry level positions such as assistant construction superintendent, junior estimator, program manager, or general contractor for property owners, developers, or construction management firms.

BUSINESS & INDUSTRY PATHWAY

Career & Technical Education Track: *Architecture & Construction*

Career Cluster/Field of Study:
Electrical

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses

- General Education Courses (15 credit hours)

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Technology

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

- Electrician Assistant, 30 credit hours

Associate Level

- Electrician Technology, AAS, 60 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:
South Texas College, Technology Management

BACHELOR
PROGRAM

5

The Electrician Assistant program will prepare students to help assemble, install, test, and maintain electrical systems. They will be trained to read blueprints, plan and layout wiring for residential, commercial, and industrial projects to meet job specifications of local and state National Electrical Code codes, diagnose malfunctioning systems, apparatus, and components, using testing devices such as ohmmeters, and voltmeters. Graduates of this program will also gain knowledge in the installation of electrical systems in factories, office buildings, homes and other structures. Graduates will be eligible to apply for an apprentice license and work under the direct supervision of a Master Electrician to obtain the Journeyman License, followed by an examination for licensure after completion of 8,000 hours of field experience.

BUSINESS & INDUSTRY PATHWAY

Career & Technical Education Track: *Architecture & Construction*

Career Cluster/Field of Study:
HVAC & Sheet Metal

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses

- General Education Courses (15 credit hours)

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Technology

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

- Heating, Ventilation, A/C, & Refrigeration Technology (HVACR), 40 credit hours

Associate Level

- Heating, Ventilation, A/C, & Refrigeration Technology (HVACR), AAS, 60 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:

South Texas College, Technology Management

BACHELOR
PROGRAM

5

The Heating, Ventilation, Air Conditioning and Refrigeration (HVACR) field will prepare students install, maintain, and trouble shoot mechanical systems in commercial, residential, and industrial environments. These mechanical systems include; heating, cooling, ventilation of indoor environments and refrigeration. HVACR technicians are primarily trained in the service, repair, maintenance and installation of heating, cooling and refrigeration equipment including domestic, residential, commercial and industrial systems. Technicians are also trained in maintaining cooling/heating systems in order to save energy consumption by implementing advance technology controls various zones. Career preparation requires extensive educational training in refrigeration systems, electrical electronic controls, pneumatic controls, cooling and heating systems, duct design, fabrication and residential and commercial heat gained and loss calculations. Additional key skills implemented in the program include; customer service, attention to detail, troubleshooting and diagnosing problems, time management, dismantling and reassembling of mechanical systems. Some of the opportunities for employment in HVACR include: Engineers in sales, application and operating, technicians in testing, equipment installers, preventive maintenance, service and repair, wholesale, and sheet metal specialist.

BUSINESS & INDUSTRY PATHWAY

Career & Technical Education Track: *Arts, Audio/Video Technology & Communications*

Career Cluster/Field of Study:
Digital Communications

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses: Computer & Internet Specialist Certificate

- CMPT 1403 : Introduction to Computer Technology
- CPMT 1404: Microcomputer Systems Software

- CPMT 1443: Microcomputer Architecture
- CPMT 1411: Introduction to Computer Maintenance

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Computer & Information Technology

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

- Computer & Internet Specialist, 16 credit hours
- Computer Maintenance Specialist, 29 credit hours
- Cloud Computing & Virtualization Specialist, 25 credit hours
- Mechatronics Technology Specialist, 29 credit hours
- Telecommunication Support Specialist, 29 credit hours
- Voice & Data Technician, 16 credit hours

Associate Level

- Computer & Advanced Technologies, AAS, 60 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:

South Texas College, Computer & Information Technologies

BACHELOR
PROGRAM

5

In this specialization, students will learn cloud computing skills, which include installation, maintenance, and support for computer systems as well as traditional, wireless and cloud-based networks. Students will take courses to learn how to properly install, maintain and troubleshoot and secure computer systems, provision software, deploy wired networks, wireless networks and install cloud-based systems. Cloud computing focuses on Infrastructure as a Service (IaaS), Platform as a Service (PaaS) and Software as a Service (SaaS) implemented on hardware and virtualized systems. South Texas College certificates and/or associate degrees include: Computer and Internet Specialist; Computer Maintenance Technology; Computer Support and Telecommunication Specialist; Telecommunication Support Specialist; Voice and Data Technician.

BUSINESS & INDUSTRY PATHWAY

Career & Technical Education Track: *Business, Marketing & Finance*

Career Cluster/Field of Study:
Accounting & Financial Services

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses: Accounting Clerk Certificate

- | | |
|---|--|
| - ACNT 1303: Introduction to Accounting I | - ACNT 1304: Introduction to Accounting II |
| - COSC 1301: Introduction to Computing | - ACNT 1311: Introduction to Computerized Accounting |
| - BUSI 1301: Business Principles | - ACNT 1329: Payroll & Business Tax Accounting |
| - BMGT 1305: Communications in Management | - BMGT 1301: Supervision |
| - BNKG 1340: Money & Financial Markets | - BMGT 2168: Capstone: Accounting Practicum |

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Business

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

- Accounting Clerk, 28 - 30 credit hours

Associate Level

- Business Administration, AAS, 60 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:
South Texas College, Technology Management

BACHELOR
PROGRAM

5

This program is designed to prepare students for an entry-level position in the field of Accounting. Graduates of this program will have the skills, knowledge, and abilities to perform general accounting duties. The program emphasizes internal accounting procedures and generally accepted principles as they apply to external reporting.

BUSINESS & INDUSTRY PATHWAY

Career & Technical Education Track: *Business, Marketing & Finance*

Career Cluster/Field of Study:

*Business Management
(Management)*

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses: Management Certificate

- | | |
|---|---|
| - ACNT 1303: Introduction to Accounting I | - BMGT 1305: Communications in Management |
| - COSC 1301: Introduction to Computing | - ACNT 1329: Payroll and Business Tax Accounting |
| - BUSI 1301: Business Principles | - HRPO 2301 Human Resources Management |
| - BMGT 1301: Supervision | - BUSG 2309: Small Business Management/
Entrepreneurship |
| - BMGT 1391: Business Conduct | - BMGT 2268 CAPSTONE: Business Administration
Practicum |
| - POFI 2301: Word Processing | |

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:

Business

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

College Level

Certificate Level

- Management, 32 - 33 credit hours

Associate Level

- Business Administration, AAS, 60 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

Bachelor Program:

South Texas College, Technology Management

BACHELOR
PROGRAM

5

This program will prepare students for an entry level position in the private or public sector. The program will prepare students in areas such as communication skills, accounting, human resource management, marketing, problem solving and decision-making. Graduates of this program will have the skills, knowledge, and abilities to perform general managerial duties.

BUSINESS & INDUSTRY PATHWAY

Career & Technical Education Track: *Business, Marketing & Finance*

Career Cluster/Field of Study:

*Business Management
(Office Specialist)*

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses: Office Specialist Certificate

- | | |
|---|--|
| - POFI 2301: Word Processing | - POFT 1328: Business Presentations |
| - POFT 1301: Business English | - POFI 1349: Spreadsheets |
| - POFT 1309: Administrative Office Procedures I | - POFT 2312: Business Correspondence & Communication |
| - POFT 1329: Beginning Keyboarding | - POFT 1349: Administrative Office Procedures II |
| - POFI 2340: Advanced Word Processing | - POFT 2264: CAPSTONE: Practicum |
| - POFT 1319: Records and Information Management I | |

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:

Business

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

- Office Specialist, 32 - 33 credit hours

Associate Level

- Administrative Office Assistant, AAS, 60 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:

South Texas College, Technology Management

BACHELOR
PROGRAM

5

The Office Specialist curriculum is a one year program designed for the student who is interested in gaining entry-level knowledge, skills, and attitudes necessary for a career as an office professional. Students are prepared for administrative office positions in business, public service, and specialized office environments. The program combines traditional office education with microcomputer software applications such as word processing, spreadsheet, database, desktop publishing, records and project management.

BUSINESS & INDUSTRY PATHWAY

Career & Technical Education Track: *Business, Marketing & Finance*

Career Cluster/Field of Study:
Entrepreneurship

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses

- General Education Courses (15 credit hours)

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Business

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

College Level

Certificate Level

N/A

Associate Level

- Business Administration, AAS, 60 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

Bachelor Program:

South Texas College, Technology Management

BACHELOR
PROGRAM

5

BUSINESS & INDUSTRY PATHWAY

Career & Technical Education Track: *Business, Marketing & Finance*

Career Cluster/Field of Study:

*Business Management
(Payroll Assistant)*

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses: Payroll Assistant Certificate

- | | |
|--|--------------------------------------|
| - ACNT 1303: Introduction to Accounting I | - HRPO 1311: Human Relations |
| - ACNT 1329: Payroll & Business Tax Accounting | - HRPO 2306: Benefits & Compensation |
| - ITSC 1409: Integrated Software Applications | |

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:

Business

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

- Employee & Labor Relations Assistant, 16 credit hours
- Human Resources Assistant, 33 credit hours
- Payroll Assistant, 16 credit hours
- Recruiter Assistant, 16 credit hours

Associate Level

- Human Resources, AAS, 60 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:

South Texas College, Technology Management

BACHELOR
PROGRAM

5

In this program, students will learn the fundamentals of the payroll practices and preparation, with emphasis in Payroll & Business Tax Accounting, Benefits and Compensation practices, laws and other software applications in order to assist any employer to compile and record employee time and payroll data and may compute employees' time worked, production and commission. It also may compute and post wages and deductions, or prepare paychecks. This certificate will allow the student to transfer credits to the Human Resources Assistant certificate and the Associate of Applied Science degree in Human Resources Specialist programs.

BUSINESS & INDUSTRY PATHWAY

Career & Technical Education Track: *Business, Marketing & Finance*

Career Cluster/Field of Study:
Marketing & Sales

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses: Marketing Certificate

- | | |
|---|--|
| - ACNT 1303: Introduction to Accounting I | - BMGT 1305: Communications in Management |
| - COSC 1301: Introduction to Computing | - MRKG 1301: Customer Relationship Management |
| - BMGT 1301: Supervision | - POFI 2431: Desktop Publishing |
| - BMGT 1391: Business Conduct | - BMGT 2268: CAPSTONE: Business Administration Practicum |
| - MRKG 1311: Principles of Marketing | |
| - BUSI 1301: Business Principles | |

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Business

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

- Marketing, 30 - 31 credit hours

Associate Level

- Business Administration, AAS, 60 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:

South Texas College, Technology Management

BACHELOR
PROGRAM

5

This program will prepare students for an entry level position in the field of marketing and sales. The program will prepare students in areas such as communication skills, sales, product design, advertisement, and public relations. Graduates of this program will have the skills, knowledge, and abilities to perform general marketing duties.

BUSINESS & INDUSTRY PATHWAY

Career & Technical Education Track: *Hospitality & Tourism*

Career Cluster/Field of Study:
Culinary Arts

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses: Commercial Cooking Certificate

- | | |
|---|---|
| <ul style="list-style-type: none"> - CHEF 1305: Sanitation and Safety - CHEF 1301: Basic Food Preparation - PSTR 1301: Fundamentals of Baking - BIOL 1322: Nutrition & Diet Therapy I | <ul style="list-style-type: none"> - RSTO 2307: Catering - RSTO 1204: Dining Room Service - CHEF 2301: Intermediate Food Preparation - CHEF 1264: Capstone: Practicum I |
|---|---|

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Business

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

- Commercial Cooking, 22 credit hours
- Commercial Baking, 23 credit hours

Associate Level

- Culinary Arts, AAS, 60 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:

South Texas College, Technology Management

BACHELOR
PROGRAM

5

The Culinary Arts program prepares students through lecture and lab courses in culinary arts, nutrition, supervision, a practicum, and general education courses. This degree leads to careers in restaurants, catering, hotels and resorts, and other commercial food services. Graduates take positions as sous-chefs, professional assistants to chefs or culinary managers, supervisors of food production and service, stewards, banquet managers, purchasing agents, or restaurant supervisors. The Program has two specialization tracks: Baking & Pastry and Commercial Cooking.

BUSINESS & INDUSTRY PATHWAY

Career & Technical Education Track: *Hospitality & Tourism*

Career Cluster/Field of Study:
Lodging & Resort Management

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses

- General Education Courses (15 credit hours)

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Business

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

N/A

Associate Level

- Business Administration, AAS, 60 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:
South Texas College, Technology Management

BACHELOR
PROGRAM

5

BUSINESS & INDUSTRY PATHWAY

Career & Technical Education Track: *Hospitality & Tourism*

Career Cluster/Field of Study:
Travel, Tourism & Attractions

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses

- General Education Courses (15 credit hours)

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Business

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

N/A

Associate Level

- Business Administration, AAS, 60 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:
South Texas College, Technology Management

BACHELOR
PROGRAM

5

BUSINESS & INDUSTRY PATHWAY

Career & Technical Education Track: *Information Technology*

Career Cluster/Field of Study:
*Information Technology Support & Services
(Computer & Internet Specialist)*

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses: Computer & Internet Specialist Certificate

- | | |
|--|--|
| <ul style="list-style-type: none"> - CMPT 1403 : Introduction to Computer Technology - CPMT 1404: Microcomputer Systems Software | <ul style="list-style-type: none"> - CPMT 1443: Microcomputer Architecture - CPMT 1411: Introduction to Computer Maintenance |
|--|--|

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Computer & Information Technology

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

- Computer & Internet Specialist, 16 credit hours
- Computer Maintenance Specialist, 29 credit hours
- Cloud Computing & Virtualization Specialist, 25 credit hours
- Mechatronics Technology Specialist, 29 credit hours
- Telecommunication Support Specialist, 29 credit hours
- Voice & Data Technician, 16 credit hours

Associate Level

- Computer & Advanced Technologies, AAS, 60 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:

South Texas College, Computer & Information Technologies

BACHELOR
PROGRAM

5

In this specialization, students will learn cloud computing skills, which include installation, maintenance, and support for computer systems as well as traditional, wireless and cloud-based networks. Students will take courses to learn how to properly install, maintain and troubleshoot and secure computer systems, provision software, deploy wired networks, wireless networks and install cloud-based systems. Cloud computing focuses on Infrastructure as a Service (IaaS), Platform as a Service (PaaS) and Software as a Service (SaaS) implemented on hardware and virtualized systems. South Texas College certificates and/or associate degrees include: Computer and Internet Specialist; Computer Maintenance Technology; Computer Support and Telecommunication Specialist; Telecommunication Support Specialist; Voice and Data Technician.

BUSINESS & INDUSTRY PATHWAY

Career & Technical Education Track: *Information Technology*

Career Cluster/Field of Study:
*Information Technology Support & Services
(Computer Applications Specialist)*



CAREER CLUSTER
FIELD OF STUDY

1

High School Level

**Required Courses: Computer Applications
Specialist Certificate**

- | | |
|---|-----------------------------------|
| - ITSC 1409: Integrated Software Applications I | - ITSE 2409: Database Programming |
| - ITSW 2434: Advanced Spreadsheets | - ARTC 1413: Digital Publishing |

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Computer & Information Technology

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

- Computer & Network Specialist, 28 credit hours
- Cybersecurity/Digital Forensics Specialist, 32 credit hours
- Computer & Information Technologies Specialist, 32 credit hours
- Computer Applications Specialist, 16 credit hours
- Multimedia Specialist, 16 credit hours

Associate Level

- Information Technology, AAS, 60 - 61 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:

South Texas College, Computer & Information Technologies

BACHELOR
PROGRAM

5

The Computer Applications Specialist program prepares students to meet the demand for advanced skills and knowledge in some of today's leading business applications. Students completing this certificate are equipped with comprehensive abilities in business productivity software such as word processing, spreadsheet, and database management systems. They also finish the program with extensive experience in the use of multimedia software for tasks such as digital publishing and photo editing. All credit hours earned in this program transfer to the Computer and Information Technologies Certificate and the Associate of Applied Science degree for Computer Specialist.

BUSINESS & INDUSTRY PATHWAY

Career & Technical Education Track: *Information Technology*

Career Cluster/Field of Study:
*Information Technology Support & Services
(Cybersecurity Specialist)*



CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses: Cybersecurity Specialist Certificate

- | | |
|--|---|
| - ITSC 1409: Integrated Software Applications I | - ITSC 1416: Linux Installation & Configuration |
| - ITSC 1405: Introduction to PC Operating Systems | - ITNW 2421: Networking with TCP/IP |
| - ITSY 1400: Fundamentals of Information Security | - ITSY 2442: Incident Response & Handling |
| - ITNW 1425: Fundamentals of Networking Technologies | - ITNW 1454: Implementing & Supporting Servers |

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Computer & Information Technology

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

College Level

Certificate Level

- Computer & Network Specialist, 28 credit hours
- Cybersecurity/Digital Forensics Specialist, 32 credit hours
- Computer & Information Technologies Specialist, 32 credit hours
- Computer Applications Specialist, 16 credit hours
- Multimedia Specialist, 16 credit hours

Associate Level

- Information Technology, AAS, 60 - 61 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

Bachelor Program:
South Texas College, Computer & Information Technologies

BACHELOR
PROGRAM

5

This hands-on Cybersecurity Program offers practical experience in a wide array of information cybersecurity and digital forensics situations that are applicable to the real world. The student will be exposed to everything from how to properly conduct an assessment, and secure and document a network. In addition, the student will learn how to establish a proper chain of custody that is admissible in a court of law when recovering files from intentionally damaged media. The program will prepare students to get certified by Cisco, CompTIA, Cellebrite, Paraben and various organizations in the cybersecurity field. Cybersecurity Specialists are needed by today's companies to protect computer networks and determine the root cause of malicious attacks, legally collect evidence admissible in court, and protect corporate assets and reputation.

BUSINESS & INDUSTRY PATHWAY

Career & Technical Education Track: *Information Technology*

Career Cluster/Field of Study:
*Information Technology Support & Services
(Multimedia Specialist)*



CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses: Multimedia Specialist Certificate

- | | |
|---|--|
| - ITSC 1409: Integrated Software Applications I | - ARTC 1413: Digital Publishing I |
| - ITSE 1411: Beginning Web Page Programming | - IMED 1445: Interactive Digital Media I |

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Computer & Information Technology

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

- Computer & Network Specialist, 28 credit hours
- Cybersecurity/Digital Forensics Specialist, 32 credit hours
- Computer & Information Technologies Specialist, 32 credit hours
- Computer Applications Specialist, 16 credit hours
- Multimedia Specialist, 16 credit hours

Associate Level

- Information Technology, AAS, 60 - 61 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:

South Texas College, Computer & Information Technologies

BACHELOR
PROGRAM

5

The Multimedia Specialist Certificate is intended for students who are interested in the multimedia side of technology. In addition to gaining experience with business productivity software such as word processing and presentation software, students in this program are further exposed to interactive digital media software, where they learn skills in photo editing, digital publishing, and web development. Most credit hours earned will transfer to the Computer and Information Technologies Certificate and to the Associate of Applied Science degree for Computer Specialist.

BUSINESS & INDUSTRY PATHWAY

Career & Technical Education Track: *Information Technology*

Career Cluster/Field of Study:
Network Systems
(*Computer & Internet Specialist*)

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses: Computer & Internet Specialist Certificate

- CMPT 1403 : Introduction to Computer Technology
- CPMT 1404: Microcomputer Systems Software

- CPMT 1443: Microcomputer Architecture
- CPMT 1411: Introduction to Computer Maintenance

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Computer & Information Technology

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

- Computer & Internet Specialist, 16 credit hours
- Computer Maintenance Specialist, 29 credit hours
- Cloud Computing & Virtualization Specialist, 25 credit hours
- Mechatronics Technology Specialist, 29 credit hours
- Telecommunication Support Specialist, 29 credit hours
- Voice & Data Technician, 16 credit hours

Associate Level

- Computer & Advanced Technologies, AAS, 60 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:

South Texas College, Computer & Information Technologies

BACHELOR
PROGRAM

5

This one-semester specialization will provide students with the foundation required in the use of computers and the Internet. The student will learn entry-level skills needed to effectively use the latest computer and Internet technologies in a business environment. Graduates will have knowledge in the areas of technology including computer hardware, software, operating systems, networking, Internet and electronic mail concepts, word processing applications, and presentation media.

BUSINESS & INDUSTRY PATHWAY

Career & Technical Education Track: *Information Technology*

Career Cluster/Field of Study:

*Network Systems
(Computer Applications Specialist)*



CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses: Computer Applications Specialist Certificate

- | | |
|---|-----------------------------------|
| - ITSC 1409: Integrated Software Applications I | - ITSE 2409: Database Programming |
| - ITSW 2434: Advanced Spreadsheets | - ARTC 1413: Digital Publishing |

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:

Computer & Information Technology

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

- Computer & Network Specialist, 28 credit hours
- Cybersecurity/Digital Forensics Specialist, 32 credit hours
- Computer & Information Technologies Specialist, 32 credit hours
- Computer Applications Specialist, 16 credit hours
- Multimedia Specialist, 16 credit hours

Associate Level

- Information Technology, AAS, 60 - 61 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:

South Texas College, Computer & Information Technologies

BACHELOR
PROGRAM

5

The Computer Applications Specialist program prepares students to meet the demand for advanced skills and knowledge in some of today's leading business applications. Students completing this certificate are equipped with comprehensive abilities in business productivity software such as word processing, spreadsheet, and database management systems. They also finish the program with extensive experience in the use of multimedia software for tasks such as digital publishing and photo editing. All credit hours earned in this program transfer to the Computer and Information Technologies Certificate and the Associate of Applied Science degree for Computer Specialist.

BUSINESS & INDUSTRY PATHWAY

Career & Technical Education Track: *Information Technology*

Career Cluster/Field of Study:

*Network Systems
(Cybersecurity Specialist)*



CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses: Cybersecurity Specialist Certificate

- | | |
|--|---|
| - ITSC 1409: Integrated Software Applications I | - ITSC 1416: Linux Installation & Configuration |
| - ITSC 1405: Introduction to PC Operating Systems | - ITNW 2421: Networking with TCP/IP |
| - ITSY 1400: Fundamentals of Information Security | - ITSY 2442: Incident Response & Handling |
| - ITNW 1425: Fundamentals of Networking Technologies | - ITNW 1454: Implementing & Supporting Servers |

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:

Computer & Information Technology

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

College Level

Certificate Level

- Computer & Network Specialist, 28 credit hours
- Cybersecurity/Digital Forensics Specialist, 32 credit hours
- Computer & Information Technologies Specialist, 32 credit hours
- Computer Applications Specialist, 16 credit hours
- Multimedia Specialist, 16 credit hours

Associate Level

- Information Technology, AAS, 60 - 61 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

Bachelor Program:

South Texas College, Computer & Information Technologies

BACHELOR
PROGRAM

5

This hands-on Cybersecurity Program offers practical experience in a wide array of information cybersecurity and digital forensics situations that are applicable to the real world. The student will be exposed to everything from how to properly conduct an assessment, and secure and document a network. In addition, the student will learn how to establish a proper chain of custody that is admissible in a court of law when recovering files from intentionally damaged media. The program will prepare students to get certified by Cisco, CompTIA, Cellebrite, Paraben and various organizations in the cybersecurity field. Cybersecurity Specialists are needed by today's companies to protect computer networks and determine the root cause of malicious attacks, legally collect evidence admissible in court, and protect corporate assets and reputation.

BUSINESS & INDUSTRY PATHWAY

Career & Technical Education Track: *Information Technology*

Career Cluster/Field of Study:

*Network Systems
(Multimedia Specialist)*



CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses: Multimedia Specialist Certificate

- | | |
|---|--|
| - ITSC 1409: Integrated Software Applications I | - ARTC 1413: Digital Publishing I |
| - ITSE 1411: Beginning Web Page Programming | - IMED 1445: Interactive Digital Media I |

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:

Computer & Information Technology

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

- Computer & Network Specialist, 28 credit hours
- Cybersecurity/Digital Forensics Specialist, 32 credit hours
- Computer & Information Technologies Specialist, 32 credit hours
- Computer Applications Specialist, 16 credit hours
- Multimedia Specialist, 16 credit hours

Associate Level

- Information Technology, AAS, 60 - 61 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:

South Texas College, Computer & Information Technologies

BACHELOR
PROGRAM

5

The Multimedia Specialist Certificate is intended for students who are interested in the multimedia side of technology. In addition to gaining experience with business productivity software such as word processing and presentation software, students in this program are further exposed to interactive digital media software, where they learn skills in photo editing, digital publishing, and web development. Most credit hours earned will transfer to the Computer and Information Technologies Certificate and to the Associate of Applied Science degree for Computer Specialist.

BUSINESS & INDUSTRY PATHWAY

Career & Technical Education Track: *Information Technology*

Career Cluster/Field of Study:
Web Development

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses

- General Education Courses (15 credit hours)

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Computer & Information Technology

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

College Level

Certificate Level

N/A

Associate Level

N/A

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

Bachelor Program:

South Texas College, Computer & Information Technologies

BACHELOR
PROGRAM

5

BUSINESS & INDUSTRY PATHWAY

Career & Technical Education Track: *Manufacturing*

Career Cluster/Field of Study:
Advanced Manufacturing & Machinery Mechanics



CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses: Precision Manufacturing Technology Certificate

- | | |
|---|---|
| - DFTG 1325: Blueprint Reading and Sketching | - DFTG 1313: Drafting for Specific Occupations |
| - MCHN 1338: Basic Machine Shop I | - MCHN 1343: Machine Shop Mathematics |
| - MCHN 1320: Precision Tools and Measurement | - MCHN 1326: Introduction to Computer-Aided Manufacturing (CAM) |
| - MCHN 2303: Fundamentals of Computer Numerical Controlled (CNC) Machine Controls | - MCHN 1352: Intermediate Machining I |

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster: *Technology*

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

- Precision Manufacturing Technology, 24 credit hours
- Fast Start Precision Manufacturing Technology, 18 credit hours

Associate Level

- Precision Manufacturing, AAS, 60 - 61 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:
South Texas College, Technology Management

BACHELOR
PROGRAM

5

This curriculum offers training on a variety of machine tools commonly used in most shops with emphasis on practical machining skills. Classroom analysis of various jobs and machine operations increases the student's capabilities as a machinist. General mathematics and communications skills are included to prepare students to work with technical advances in the machining industry. Students are eligible to take the National Institute of Metalworking Skills (NIMS) certification exams, which are administered at South Texas College by certified faculty. Upon completion, this specialty will allow the student to continue in the Precision Manufacturing Technology's two-year Associate of Applied Science Degree program or permit the student to work in a highly rewarding career field in industry.

BUSINESS & INDUSTRY PATHWAY

Career & Technical Education Track: *Manufacturing*

Career Cluster/Field of Study:
*Advanced Manufacturing & Machinery Mechanics
(Computer & Internet Specialist)*

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses: Computer & Internet Specialist Certificate

- CMPT 1403 : Introduction to Computer Technology
- CPMT 1404: Microcomputer Systems Software

- CPMT 1443: Microcomputer Architecture
- CPMT 1411: Introduction to Computer Maintenance

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Computer & Information Technology

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

- Computer & Internet Specialist, 16 credit hours
- Computer Maintenance Specialist, 29 credit hours
- Cloud Computing & Virtualization Specialist, 25 credit hours
- Mechatronics Technology Specialist, 29 credit hours
- Telecommunication Support Specialist, 29 credit hours
- Voice & Data Technician, 16 credit hours

Associate Level

- Computer & Advanced Technologies, AAS, 60 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:

South Texas College, Computer & Information Technologies

BACHELOR
PROGRAM

5

This one-semester specialization will provide students with the foundation required in the use of computers and the Internet. The student will learn entry-level skills needed to effectively use the latest computer and Internet technologies in a business environment. Graduates will have knowledge in the areas of technology including computer hardware, software, operating systems, networking, Internet and electronic mail concepts, word processing applications, and presentation media.

BUSINESS & INDUSTRY PATHWAY

Career & Technical Education Track: *Manufacturing*

Career Cluster/Field of Study:

*Welding
(Combination Welding)*

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses: Combination Welding Certificate

- MCHN 1343: Machine Shop Mathematics	- WLDG 1312: Introduction to Flux Cored Arc Welding
- WLDG 1313: Introduction to Blueprint Reading for Welders	- WLDG 1417: Introduction to Layout and Fabrication
- WLDG 1428: Introduction to Shielded Metal Arc Welding	- WLDG 1434: Introduction to Gas Tungsten Arc Welding
- WLDG 1430: Introduction to Gas Metal Arc Welding	- WLDG 2451: Advanced Gas Tungsten Arc Welding
- WLDG 1457: Intermediate Shielded Metal Arc Welding	- WLDG 2406: Intermediate Pipe Welding
	- WLDG 2413: Capstone: Intermediate Welding Using Multiple Processes

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:

Technology

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

- Combination Welding, 41 credit hours

Associate Level

- Welding, AAS, 60 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:

South Texas College, Technology Management

BACHELOR
PROGRAM

5

This three semester program will prepare the students for entry level positions with skills in four welding processes (Shielded Metal Arc Welding, Gas Metal Arc Welding, Gas Tungsten Arc Welding and Flux Core Arc Welding). Students will perform fillets, lap, corner joint and V groove welds with backing and open groove in the Flat, Horizontal, Vertical-up and Overhead positions. Students will gain knowledge in lay out and fabrication as well as blueprint reading for the welders, welding safety and metallurgy. Graduate candidates will be eligible to take a welding performance qualification test in accordance with American Welding Society, as used in the industry.

BUSINESS & INDUSTRY PATHWAY

Career & Technical Education Track: *Manufacturing*

Career Cluster/Field of Study:

*Welding
(Structural Welding)*

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses: Structural Welding Certificate

- MCHN 1343: Machine Shop Mathematics
- WLDG 1313: Introduction to Blueprint Reading for Welders
- WLDG 1428: Introduction to Shielded Metal Arc Welding
- WLDG 1430: Introduction to Gas Metal Arc Welding

- WLDG 1457: Intermediate Shielded Metal Arc Welding
- WLDG 1312: Introduction to Flux Cored Arc Welding
- WLDG 1417: Introduction to Layout and Fabrication
- WLDG 1434: Introduction to Gas Tungsten Arc Welding

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster: *Technology*

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

- Structural Welding, 29 credit hours

Associate Level

- Welding, AAS, 60 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:

South Texas College, Technology Management

BACHELOR
PROGRAM

5

This two semester program will prepare the students for entry level positions with skills in four welding processes (Shielded Metal Arc Welding, Gas Metal Arc Welding, Gas Tungsten Arc Welding and Flux Core Arc Welding) but does not go into the advanced welding level (open groove and pipe) as does the combination certificate. Students will perform fillets, lap, corner and tee's joint welds in the Flat, Horizontal, Vertical-up and Overhead positions. Graduate candidates will be eligible to take a welding performance qualification test in accordance with American Welding Society, as used in the industry.

BUSINESS & INDUSTRY PATHWAY

Career & Technical Education Track: *Transportation, Distribution & Logistics*

Career Cluster/Field of Study:
Automotive



CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses: Automotive Technology Certificate

- AUMT 1407: Automotive Electrical Systems
- AUMT 1410: Automotive Brake Systems
- AUMT 1416: Automotive Suspension & Steering Systems
- AUMT 1419: Automotive Engine Repair
- AUMT 1345: Automotive Climate Control Systems
- AUMT 1201: Introduction & Theory of Automotive Technology

- AUMT 2417: Automotive Engine Performance Analysis I
- AUMT 2425: Automotive Automatic Transmission & Transaxle
- AUMT 2313: Automotive Drive Train & Axles
- AUMT 2434: Automotive Engine Performance Analysis II
- AUMT 1266: Practicum I

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Technology

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

- Ford Youth & Adult Training Program, 18 credit hours
- Automotive Technology, 38 credit hours

Associate Level

- Automotive Technology, AAS, 60 - 61 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:

South Texas College, Technology Management

BACHELOR
PROGRAM

5

The Automotive Technology program is designed to prepare students for an entry-level employment in the high technology automotive service industry. Students will gain knowledge in automotive heating and air conditioning systems, electrical/electronic systems, fuel injection, both manual and automatic transmissions/transaxles, engine performance, brake systems, steering and suspension systems, and computerized automotive control systems. Emphasis will be placed on hands-on learning in the labs to develop diagnostic and troubleshooting skills, as well as repair procedures. Graduates of the Automotive Technology program are typically placed in dealerships, independent garages and specialty automotive repair facilities and quick service shops.

BUSINESS & INDUSTRY PATHWAY

Career & Technical Education Track: *Transportation, Distribution & Logistics*

Career Cluster/Field of Study:
Diesel & Heavy Equipment

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses: Diesel Technology Certificate

- | | |
|--|--|
| - DEMR 1401: Diesel Shop Safety & Procedures | - WLDG 1428: Introduction to Shielded Metal Arc Welding (SMAW) |
| - DEMR 1405: Basic Electrical Systems | - DEMR 1417: Basic Brake Systems |
| - DEMR 1410: Diesel Engine Testing and Repair I | - DEMR 1230: Steering and Suspension I |
| - DEMR 1229: Preventative Maintenance | - DEMR 1303: Basic Driving Skills |
| - DEMR 1442: Power Train Applications I | - DEMR 2432: Electronic Controls |
| - DEMR 1323: Heating, Ventilation, and Air Conditioning Troubleshooting and Repair | - DEMR 1416: Basic Hydraulics |

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Technology

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

- Diesel Technology, 42 credit hours

Associate Level

- Diesel Technology, AAS, 60 - 61 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:

South Texas College, Technology Management

BACHELOR
PROGRAM

5

The Diesel Technology industry is a rapidly growing industry which is requiring a growing number of qualified technicians. The Diesel Technology student will acquire the knowledge and skills necessary for the repair of diesel engines, electrical and electronic control systems, hydraulic systems, air brakes, suspension, steering, and transmissions through a combination of lecture and lab work, to include troubleshooting and diagnostic procedures.

BUSINESS & INDUSTRY PATHWAY

Career & Technical Education Track: *Transportation, Distribution & Logistics*

Career Cluster/Field of Study:
Distribution & Logistics

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses: Logistics Certificate

- ACNT 1303: Introduction to Accounting I
- COSC 1301: Introduction to Computing
- BMGT 1391: Business Conduct
- LMGT 1319: Introduction to Business Logistics
- BNKG 1340: Money and Financial Markets

- BMGT 1305: Communications in Management
- LMGT 1321: Principles of Material Management
- LMGT 1325: Warehouse and Distribution Center Management
- BMGT 2268: CAPSTONE: Business Administration Practicum

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Business

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

College Level

Certificate Level

- Logistics, 26 - 27 credit hours

Associate Level

- Business Administration, AAS,
60 - 61 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

Bachelor Program:

South Texas College, Technology Management

BACHELOR
PROGRAM

5

This program will prepare students for entry into the import/export/logistics profession. It is designed to update and expand the skills of those already working in the field, as well as assist those individuals who are considering the import/export/logistics field as a profession. The graduates of this program will have the basic knowledge to take the Custom Broker exam.

BUSINESS & INDUSTRY PATHWAY

Transfer Track: *Business Administration*

Career Cluster/Field of Study:
*Business Administration
(Transfer Plan)*



CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses: Cybersecurity Specialist Certificate

- Core Curriculum courses (42 credit hours)

- Field of Study courses (18 credit hours)

SOUTH TEXAS COLLEGE
DUAL CREDIT
PROGRAMS

2

Meta-Major Program Cluster:
Business

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

College Level

Certificate Level

N/A

Associate Level

- Business Administration, AA,
60 - 61 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

Bachelor Program:
*South Texas College, Technology Management
OR
Transfer to a 4 Year University*

BACHELOR
PROGRAM

5

This degree designed for those students who plan to transfer to a four-year college or university to earn a Bachelor of Business Administration a Bachelor of Arts, or a Bachelor of Science Degree. Students take classes to complete state general education requirements and a combination of business classes in accounting, computers, and economics which fulfill the Associate of Art Degree in Business Administration. Upon transferring to a four-year college or university, students may choose a concentration in Accounting, Economics, General Business, Finance, International Business, Information Systems, Management, or Marketing.

PUBLIC SERVICE PATHWAY

Education & Training	
• Early Training.....	55
• Teaching & Training - <i>NOT OFFERED</i>	
Health Science	
• Exercise Science & Wellness.....	56
• Health Informatics.....	57
• Healthcare Diagnostics.....	58
• Healthcare Therapeutics - Medical Office Specialist.....	59
• Healthcare Therapeutics - Patient Care Technician.....	60
• Nursing Science.....	61
Human Services	
• Family & Community Service - <i>NOT OFFERED</i>	
• Health & Wellness - <i>NOT OFFERED</i>	
Law & Public Services	
• Emergency Services - EMT.....	63
• Emergency Services - Firefighter.....	64
• Emergency Services - Public Administration.....	65
• Law Enforcement.....	66
• Legal Studies.....	67
Education	
• Early Training.....	68
• Teaching & Training.....	69
Kinesiology	
• Kinesiology.....	70
Psychology	
• Psychology.....	71
Social Work	
• Social Work.....	72
Criminal Justice	
• Criminal Justice.....	73



PUBLIC SERVICE PATHWAY

NOT OFFERED AT STC

Career & Technical Education Track: *Education & Training*
Teaching & Training

Career & Technical Education Track: *Human Services*
Family & Community Service
Health & Wellness

PUBLIC SERVICE PATHWAY

Career & Technical Education Track: Education & Training

Career Cluster/Field of Study:
Early Learning

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses

- General Education Courses (15 credit hours)

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Education & Kinesiology

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

- Infant & Toddler, 22-30 credit hours
- Pre-School, 10-14 credit hours
- Administration of Early Childhood Programs,
19 credit hours

Associate Level

- Child Development, AAS,
60 - 61 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:
Transfer to a 4 Year University

BACHELOR
PROGRAM

5

The curriculum leading to the Associate of Applied Science degree in Child Development/Early Childhood provides the instruction and field experience necessary for successful care and guidance of young children birth to eight years of age. Graduates will know and be able to promote child development concepts and learning; build family and community relationships; observe, document, and assess children; use developmentally effective approaches to connect with children and families; use content knowledge to build meaningful curriculum; and become an early childhood professional and advocate for young children. Students will be prepared for various positions in private kindergartens, child development centers and early childhood programs such as Early Head Start, Head Start, non-profit and for-profit preschool and infant/toddler programs. They also will be prepared for positions in public schools and after school programs such as teacher aides and other paraprofessionals. All students participating in Field Study courses must have a negative TB test and no criminal record.

PUBLIC SERVICE PATHWAY

Career & Technical Education Track: *Health Science*

Career Cluster/Field of Study:
Exercise Science & Wellness

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses

- General Education Courses (15 credit hours)

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Education & Kinesiology

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

- Personal Trainer, 19 credit hours*

Associate Level

N/A

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

* must be a high school graduate, some restrictions apply

Bachelor Program:

South Texas College, Organizational Leadership

BACHELOR
PROGRAM

5

The curriculum for the Personal Trainer certificate is composed of courses designed to provide the student the knowledge and skills needed to enter the workforce in the area of Commercial Fitness. These courses will allow the student the ability to provide personal training services to clients seeking to improve their fitness levels. Training strategies, program development and assessment practices are included to prepare students to be competitive in the Commercial Fitness industry. This certificate provides individuals with the most current, foundational knowledge, training, testing and competencies to certify them to practice as professional certified fitness trainers. In addition, students will be eligible to take a certification exam with a national organization upon completion of the certificate program.

PUBLIC SERVICE PATHWAY

Career & Technical Education Track: *Health Science*

Career Cluster/Field of Study:
Health Informatics

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses

- General Education Courses (15 credit hours)

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Health Science

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

College Level

Certificate Level

- Electronic Health Record Specialist, 20 credit hours
- Medical Coding Specialist, 38 credit hours
- Medical Information / Transcription Specialist, 38 credit hours

Associate Level

- Health Information Technology, AAS, 60 credit hours*

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

* must be a high school graduate, some restrictions apply

Bachelor Program:

South Texas College, Medical & Health Science Management

BACHELOR
PROGRAM

5

Health Information Technicians are responsible for maintaining components of health information systems consistent with the medical administrative, ethical, and legal, accreditation, and regulatory requirements of the health care delivery system. In all types of facilities, and in various locations within a facility, the health information technician possesses the technical knowledge and skills necessary to process, maintain, complete and report health information data for reimbursement, facility planning, marketing, risk management, utilization management, quality assessment and research; abstract and code, clinical data using appropriate classification systems; and analyze health records according to standards. As part of the degree plan, students will complete an internship that enables them to gain real-world experience. In addition, students are prepared for a national exam that measures proficiency and competency in the standards set by the American Health Information Management.

PUBLIC SERVICE PATHWAY

Career & Technical Education Track: *Health Science*

Career Cluster/Field of Study:
Healthcare Diagnostics

**CAREER CLUSTER
FIELD OF STUDY**

1

High School Level

Required Courses

- General Education Courses (15 credit hours)

**SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES**

2

Meta-Major Program Cluster:
Health Science

**SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER**

3

Certificate Level

N/A

Associate Level

- Diagnostic Medical Sonography, AAS, 60 credit hours*
- Diagnostic Medical Sonography Advanced Technical Certificate, 13 credit hours*

**SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE**

4

College Level

* must be a high school graduate, some restrictions apply

Bachelor Program:

South Texas College, Medical & Health Science Management

**BACHELOR
PROGRAM**

5

The Radiologic Technology Program, a selective program, provides educational and clinical experience that result in extensive knowledge in patient care, radiographic procedures, examination techniques, equipment operation, radiation protection, and image production and evaluation. Throughout the clinical and practicum aspects of the program, students will train in various medical facilities with experienced radiologic technologists.

Students are trained for employment as entry-level radiologic technologists in hospitals, outpatient imaging centers, mobile imaging services, and additional medical facilities. Upon completion of the program, graduates are eligible to sit for the national certification examination for Radiologic Technology administered by the American Registry of Radiologic Technologists (ARRT). Successful completion of this exam results in the designation of the title as a Registered Technologist in Radiography, or R.T. (R) (ARRT). The state of Texas also requires that individuals approved to sit for the national certification examination also apply for state licensure before being allowed to practice in this state.

PUBLIC SERVICE PATHWAY

Career & Technical Education Track: *Health Science*

Career Cluster/Field of Study:

*Healthcare Therapeutics
(Medical Office Specialist)*



CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses: Medical Office Specialist Certificate

- | | |
|--|-------------------------------------|
| - HITT 1305: Medical Terminology I | - MDCA 1205: Medical Law and Ethics |
| - MDCA 1321: Administrative Procedures | - POFM 1400: Basic Medical Coding |
| - MDCA 1343: Medical Insurance | - MDCA 1166: Practicum I |

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:

Health Science

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

- Medical Assistant Technology, 39 credit hours
- Medical Office Specialist, 16 credit hours

Associate Level

- Medical Assistant Technology, AAS, 60 - 61 credit hours*

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

* must be a high school graduate, some restrictions apply

Bachelor Program:

South Texas College, Medical & Health Science Management

BACHELOR
PROGRAM

5

The Medical Office Specialist is a health care worker with medical office administrative skills for managing the front office, medical records, and medical insurance billing. As part of the degree plan, students will complete an internship enabling them to gain real medical front office experience.

PUBLIC SERVICE PATHWAY

Career & Technical Education Track: *Health Science*

Career Cluster/Field of Study:
*Healthcare Therapeutics
(Patient Care Technician)*



CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses: Patient Care Assistant Certificate

- | | |
|--|------------------------------------|
| - NURA 1401: Nurse Aide for Health Care | - PLAB 1323: Phlebotomy |
| - NURA 1160: Clinical I | - ECRD 1211: Electrocardiography |
| - NUPC 1320: Patient Care Technician/Assistant | - NUPC 1360: Capstone: Clinical II |

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Health Science

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

- Patient Care Assistant, 16 credit hours
- Licensed Vocational Nursing, 45-49 credit hours

Associate Level

- Associate Degree Nursing, AAS, 60 credit hours*

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

BACHELOR
PROGRAM

5

Bachelor Program:

South Texas College, Medical & Health Science Management

This is a 16 credit hour certificate program that offers classroom instruction and related clinical practice in the basic nursing care of adults, children, infants and the elderly. The need for qualified patient care assistants in long-term care is growing at a tremendous rate. The philosophy of care for residents in these facilities has changed from one of custodial care to an implementation of restorative care in which the resident is assisted to reach an optimal potential for physical, mental, and emotional well-being. This care can only be provided by knowledgeable and educated staff. Students will attain three professional certificates for Alzheimer's care. After successful completion of the Texas Department of Aging Nurse Aide Competency Examination, students will focus on acute care and specialized patient care. Entry-level skills in phlebotomy, electrocardiogram (EKG), and monitor technician are included. Students are prepared to work the many fields available to them such as home health, hospitals, nursing homes and hospice agencies. After successful completion of all course requirements students are eligible to take the National Center for Competency Testing examination for Patient Care Technician. STC provides the National Health Career Association certification examinations for Patient Care Technician, Phlebotomist and EKG technician.

PUBLIC SERVICE PATHWAY

Career & Technical Education Track: *Health Science*

Career Cluster/Field of Study:

Nursing Science

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses

- General Education Courses (15 credit hours)

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:

Health Science

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

College Level

Certificate Level

- Licensed Vocational Nursing, 45-49 credit hours

Associate Level

- Associate Degree Nursing, AAS, 60 credit hours*

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

* must be a high school graduate, some restrictions apply

Bachelor Program:

South Texas College, Medical & Health Science Management

BACHELOR
PROGRAM

5

PUBLIC SERVICE PATHWAY

Career & Technical Education Track: *Health Science*

Career Cluster/Field of Study:

Nursing Science

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses

- General Education Courses (15 credit hours)

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:

Health Science

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

College Level

Certificate Level

N/A

Associate Level

- Occupational Therapy Assistant, AAS, 60 credit hours*
- Physical Therapist Assistant, AAS, 63 credit hours*
- Respiratory Therapy, AAS, 60 credit hours*

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

* must be a high school graduate, some restrictions apply

Bachelor Program:

South Texas College, Medical & Health Science Management

BACHELOR
PROGRAM

5

PUBLIC SERVICE PATHWAY

Career & Technical Education Track: Law & Public Service

Career Cluster/Field of Study:
Emergency Services (EMT)



CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses: EMT Basic Certificate

- | | |
|---|---|
| - EMSP 1501: Emergency Medical Technician | - EMSP 1208: Emergency Vehicle Operations |
| - EMSP 1160: EMT - Basic Clinical | - EMSP 1371: EMS Documentation |
| - EMSP 1166: EMT - Basic Practicum | - EMSP 1472: Emergent Issues in EMT |

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Health Science

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

- EMT: Basic, 16 credit hours
- EMT: Intermediate, 27 credit hours*
- EMT: Paramedic, 51 credit hours*

Associate Level

- Emergency Medical Technology, AAS, 60 credit hours*

* must be a high school graduate, some restrictions apply

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:

South Texas College, Medical & Health Science Management

BACHELOR
PROGRAM

5

Instruction at the basic level will serve as a foundation for the other two advanced levels, as well as concentrate on learning general anatomy and physiology and general patient assessment. Students will learn and practice lifesaving procedures such as oxygen administration, spinal motion restriction, bandaging, splinting, and administration of certain medications. Upon Completion of this course students will be eligible to take the NREMT Basic exam provided by the National Registry and apply to Texas for EMT Basic Certification.

PUBLIC SERVICE PATHWAY

Career & Technical Education Track: Law & Public Service

Career Cluster/Field of Study:

Emergency Services
(Firefighter)

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses

- General Education courses (15 credit hours)

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:

Public Safety

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

- Basic Firefighter, 26 credit hours*

Associate Level

- Fire Science, AAS, 60 credit hours*

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

* must be a high school graduate, some restrictions apply

Bachelor Program:

South Texas College, Organizational Leadership

BACHELOR
PROGRAM

5

Fire Science, a selective program, is designed to prepare students for the firefighting occupation. Students of the Basic Structure Fire Training Program, also known as the Fire Academy, will learn the functions of fire equipment, including the fire apparatus, as well as both the theory and practical application of firefighting technology. The program will prepare students for the Texas Basic Structure Fire Suppression certificate in accordance with the standards from the Texas Commission on Fire Protection. After a student has met the state's certification requirements, the student may be hired as a paid firefighter by Texas fire departments; other states may also recognize the certification if the student applies for and meets the qualifications for the optional IFSAC seal. The associate level program will prepare students for firefighter certifications beyond the basic fire suppression certification according to the standards from the Texas Commission on Fire Protection. Students will also be introduced to the organization and management of a fire department and the relationship of government agencies to the fire service. The Fire Science Technology program will also provide training concerning the fire inspection areas such as rules, codes, and field inspection practices to meet certification requirements of the Texas Commission on Fire Protection.

PUBLIC SERVICE PATHWAY

Career & Technical Education Track: Law & Public Service

Career Cluster/Field of Study:

*Emergency Services
(Public Administration)*

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses

- General Education courses (15 credit hours)

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:

Business

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

- Public Service Assistant, 24 credit hours

Associate Level

- Public Administration, AAS, 60 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:

South Texas College, Technology Management

BACHELOR
PROGRAM

5

The Associates of Applied Science degree in Public Administration program is designed to provide students with the knowledge and skills necessary for employment in the public sector and not-for-profit programs. The program will enable students to understand the political, legal, ethical and social context of public administration with respect to pertinent processes and theories; to achieve proficiency in understanding and developing positive organizational behavior; and to develop the ability to apply appropriate methodologies to solve important problems and issues. Coursework for this program includes such areas as public sector management, budgeting, ethics and supervision. The program includes a three credit hour practicum designed to give the student real-world experience related to the area of their career interest.

PUBLIC SERVICE PATHWAY

Career & Technical Education Track: Law & Public Service

Career Cluster/Field of Study:
Law Enforcement

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses

- General Education courses (15 credit hours)

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Public Safety

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

- Basic Peace Officer, 24 credit hours*

Associate Level

- Law Enforcement, AAS, 60 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

* must be a high school graduate, some restrictions apply

Bachelor Program:

South Texas College, Organizational Leadership

BACHELOR
PROGRAM

5

Law Enforcement, is a selective program, designed to prepare students for a profession in law enforcement. Police academy students will learn the role and responsibilities of a law enforcement officer and become knowledgeable in Texas Criminal and Traffic law. The police academy will prepare students for peace officer certifications according to the standards from the Texas Commission on Law Enforcement Officers Standards and Education.

PUBLIC SERVICE PATHWAY

Career & Technical Education Track: Law & Public Service

Career Cluster/Field of Study:
Legal Studies

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses

- General Education courses (15 credit hours)

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Business

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

- Legal Office Specialist, 32 credit hours

Associate Level

- Legal Office Assistant, AAS, 60 credit hours
- Paralegal, AAS, 60 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:

South Texas College, Technology Management

BACHELOR
PROGRAM

5

PUBLIC SERVICE PATHWAY

Transfer Track: *Education*

Career Cluster/Field of Study:
Early Learning



**CAREER CLUSTER
FIELD OF STUDY**

1

High School Level

Required Courses: Early Childhood-6 Generalist Associate

- | | |
|--|---|
| - Core Courses (42 credit hours) | - MATH 1350: Mathematics for Teachers I |
| - EDUC 1301: Introduction to the Teaching Profession | - MATH 1351: Mathematics for Teachers II |
| - EDUC 2301: Introduction to Special Populations | - Life and Physical Science Electives(6-8 credit hours) |

**SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES**

2

Meta-Major Program Cluster:
Education & Kinesiology

**SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER**

3

Certificate Level

N/A

Associate Level

- Early Childhood - 6 Generalist, AAT, 60-62 credit hours

**SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE**

4

College Level

Bachelor Program:
Transfer to 4 Year University

**BACHELOR
PROGRAM**

5

The Associate of Arts in Teaching (AAT) introduces students to the teaching profession. Students may choose between Elementary, Middle School, and High School Education curricula tracks. All three degrees require a minimum of 60 credit hours of coursework including 42 credit hours of recommended courses from the core curriculum and a minimum of 18 credit hours in the field of study. Also required are the courses EDUC 1301 Introduction to the Teaching Profession and EDUC 2301 Introduction to Special Populations in which students are introduced to the philosophies and practical knowledge of teaching as well as being given the opportunity to participate in field observations of classrooms in local public school districts.

PUBLIC SERVICE PATHWAY

Transfer Track: *Education*

Career Cluster/Field of Study:
Teaching & Training

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses

- Core Curriculum courses (42 credit hours)

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Education & Kinesiology

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

College Level

Certificate Level

N/A

Associate Level

- 4 to 8 Generalist, AAT, 60-62 credit hours
- 8 to 12, AAT, 60 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

Bachelor Program:
Transfer to 4 Year University

BACHELOR
PROGRAM

5

The Associate of Arts in Teaching (AAT) introduces students to the teaching profession. Students may choose between Elementary, Middle School, and High School Education curricula tracks. All three degrees require a minimum of 60 credit hours of coursework including 42 credit hours of recommended courses from the core curriculum and a minimum of 18 credit hours in the field of study. Also required are the courses EDUC 1301 Introduction to the Teaching Profession and EDUC 2301 Introduction to Special Populations in which students are introduced to the philosophies and practical knowledge of teaching as well as being given the opportunity to participate in field observations of classrooms in local public school districts.

PUBLIC SERVICE PATHWAY

Transfer Track: *Kinesiology*

Career Cluster/Field of Study:

Kinesiology

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses

- Core Curriculum courses (42 credit hours)

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:

Social & Behavioral Sciences

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

College Level

Certificate Level

N/A

Associate Level

- Kinesiology, AA, 60 credit hours*

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

* must be a high school graduate, some restrictions apply

Bachelor Program:

Transfer to 4 Year University

BACHELOR
PROGRAM

5

The objective of the Kinesiology Department at South Texas College is to prepare Kinesiology Majors to continue along an educational path to meet desired goals and to seek opportunities to be advocates for healthy lifestyles. Students are encouraged to participate in a variety of activities, especially those involving new skills. The department offers a variety of academic, distance learning, and physical activity laboratory courses in the areas of physical education pedagogy (teaching), fitness, health education, and specialized certification courses. Activity courses are designed for beginners, unless otherwise described. The vast majority of Kinesiology lecture courses are transferable toward a B.S. degree in Kinesiology at 4-year institutions. Additionally, the department offers a diverse range of physical activity laboratory courses (individual and team sports), which fulfill the required Kinesiology physical activity credits for the Associate of Art's degree.

PUBLIC SERVICE PATHWAY

Transfer Track: *Psychology*

Career Cluster/Field of Study:
Psychology

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses

- Core Curriculum courses (42 credit hours)

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Social & Behavioral Sciences

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

N/A

Associate Level

- Psychology, AA, 60 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:
Transfer to 4 Year University

BACHELOR
PROGRAM

5

Psychology is the scientific study of the mind and human behavior. The Program provides students with scientific knowledge related to human behavior and mental processes to include neuroscience, sensation and perception, memory, cognition, language, intelligence, consciousness, developmental psychology, personality, psychological disorders, therapy, statistics, and human sexuality. It is our department's vision to provide students with critical thinking skills, knowledge, and motivation to foster personal growth, adopt a scientific attitude, and become lifelong learners.

PUBLIC SERVICE PATHWAY

Transfer Track: Social Work

Career Cluster/Field of Study:
Social Work

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses

- Core Curriculum courses (42 credit hours)

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Social & Behavioral Sciences

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

College Level

Certificate Level

N/A

Associate Level

- Social Work, AA, 60 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

Bachelor Program:
Transfer to 4 Year University

BACHELOR
PROGRAM

5

Social work is a profession devoted to helping people function the best they can in their environment. Social workers act as advocates for children and families in need, victims of domestic violence, people with disabilities, pregnant teenagers, and many other diverse populations. Social workers provide advice, advocacy, and support to those who have personal and social problems. Social Workers also work in the community to promote social justice. After completion of this degree, the student will be prepared to work in a variety of public and private social service settings including programs in schools and hospitals, juvenile detention and residential facilities, crisis centers, information and referral programs, hospices, employee assistance programs, nursing homes, home health agencies and adult day care centers.

PUBLIC SERVICE PATHWAY

Transfer Track: *Criminal Justice*

Career Cluster/Field of Study:
Criminal Justice



CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses: Criminal Justice Associate

- | | |
|--|--|
| <ul style="list-style-type: none"> - Core Curriculum Courses (42 credit hours) - CRIJ 1301: Introduction to Criminal Justice - CRIJ 1306: Court Systems and Practices | <ul style="list-style-type: none"> - CRIJ 1310: Fundamentals of Criminal Law - CRIJ 2313: Correctional Systems & Practices - CRIJ 2328: Police Systems and Practices - CRIJ 1313: Juvenile Justice System) |
|--|--|

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Social & Behavioral Sciences

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

N/A

Associate Level

- Criminal Justice - 6 Generalist, AAT, 60-62 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:
Transfer to 4 Year University

BACHELOR
PROGRAM

5

The need for college-level training in the field of Criminal Justice has grown dramatically. Criminal Justice agencies in all areas have recognized the value of college training for their employees. Some have made it mandatory, while many others offer incentive pay for employees with college education. Criminal Justice careers can be found in a variety of forms: law enforcement/police, private detectives, insurance companies, private security, child and adult protective services, correctional officers, probation and parole officers, juvenile counselors, and game wardens are among the many possibilities available. These people help our society run smoothly and within the realms of the law. They also play a key role in preventing future terrorist attacks on American soil. Graduates of a criminal justice program can find employment opportunities in the field at the local, state, and federal levels (most federal agencies do require a four-year degree as a minimum, however). After completion of the Criminal Justice Associate Degree program, students will have the basic knowledge to enter many public safety agencies. Students may also transfer to a four-year institution for more advanced coursework and to become more competitive in the job market.

STEM PATHWAY

Science, Technology, Engineering & Mathematics

- Biomedical Science..... 76
- Cybersecurity..... 77
- Engineering - Architectural & Engineering Design Technology..... 78
- Programming & Software Development - *NOT OFFERED*
- Renewable Energy - *NOT OFFERED*

Computer Science

- Computer Information Systems..... 79
- Computer Science..... 80

Mathematics

- Mathematics..... 81

Biology

- Biology..... 82

Chemistry

- Chemistry..... 83

Engineering

- Engineering..... 84

Physics

- Physics..... 84

Pre-Pharmacy

- Pre-Pharmacy..... 86



STEM PATHWAY

NOT OFFERED AT STC

Career & Technical Education Track: *Science, Technology, Engineering & Mathematics*
Programming & Software Development
Renewable Energy

STEM PATHWAY

Career & Technical Education Track: *Science, Technology, Engineering & Mathematics*

Career Cluster/Field of Study:
Biomedical Science

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses

- General Education courses (15 credit hours)

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Health Science

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

N/A

Associate Level

- Pharmacy Technology, AAS, 60 credit hours*

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

* must be a high school graduate, some restrictions apply

Bachelor Program:

South Texas College, Medical & Health Service Management

BACHELOR
PROGRAM

5

Pharmacy technicians assist licensed pharmacists prepare prescription medications, provide customer service, and perform administrative duties within a pharmacy setting. Pharmacy technicians generally are responsible for receiving prescription requests, counting tablets, and labeling bottles, perform administrative functions such as answering phones, stocking shelves, and operating cash registers.

STEM PATHWAY

Career & Technical Education Track: Science, Technology, Engineering & Mathematics

Career Cluster/Field of Study:
Cybersecurity



CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses: Cybersecurity Specialist Certificate

- | | |
|--|---|
| - ITSC 1409: Integrated Software Applications I | - ITSC 1416: Linux Installation & Configuration |
| - ITSC 1405: Introduction to PC Operating Systems | - ITNW 2421: Networking with TCP/IP |
| - ITSY 1400: Fundamentals of Information Security | - ITSY 2442: Incident Response & Handling |
| - ITNW 1425: Fundamentals of Networking Technologies | - ITNW 1454: Implementing & Supporting Servers |

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Computer & Information Technology

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

College Level

Certificate Level

- Cybersecurity Specialist, 32 credit hours

Associate Level

- Cybersecurity Specialist, AAS, 60-61 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

Bachelor Program:

South Texas College, Computer & Information Technologies

BACHELOR
PROGRAM

5

This hands-on Cybersecurity Program offers practical experience in a wide array of information cybersecurity and digital forensics situations that are applicable to the real world. The student will be exposed to everything from how to properly conduct an assessment, and secure and document a network. In addition, the student will learn how to establish a proper chain of custody that is admissible in a court of law when recovering files from intentionally damaged media. The program will prepare students to get certified by Cisco, CompTIA, Cellebrite, Paraben and various organizations in the cybersecurity field. Cybersecurity Specialists are needed by today's companies to protect computer networks and determine the root cause of malicious attacks, legally collect evidence admissible in court, and protect corporate assets and reputation.

STEM PATHWAY

Career & Technical Education Track: Science, Technology, Engineering & Mathematics

Career Cluster/Field of Study:

*Engineering
(Architectural & Engineering Design Technology)*

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses: Architectural & Engineering Design Certificate

- DFTG 1409: Basic Computer-Aided Drafting
- DFTG 1315: Architectural Blueprint Reading & Sketching

- ARCH 1311: Introduction to Architecture
- ARCE 1421: Architectural Illustration
- DFTG 1493: Introduction to Civil Drafting

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:

Technology

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

- Architectural & Engineering Design Technology, 18 credit hours
- Architectural & Civil Engineering Technology, 26 credit hours
- Architectural & Visual Technology, 26 credit hours

Associate Level

- Architectural & Engineering Design Technology, AAS, 60 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:

South Texas College, Technology Management

BACHELOR
PROGRAM

5

The purpose of this program is to prepare the students for employment in architectural, visual, and civil engineering technology industries. The student will be required to have an understanding of but not limited to, the following areas: principles of drafting, architectural drafting, civil drafting, layout and design, application of the latest drawing software programs, current knowledge of building standards and codes, and construction materials and specifications. This program specializes in 3 areas: Architectural & Engineering Design Technology; Architectural & Civil Engineering Technology; and Architectural & Visual Technology.

STEM PATHWAY

Transfer Track: *Computer Science*

Career Cluster/Field of Study:
Computer Information Systems

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses

- Core Curriculum courses (42 credit hours)

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Computer & Information Technology

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

College Level

Certificate Level

N/A

Associate Level

- Computer Science, AS, 60 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

Bachelor Program:
South Texas College, Computer & Information Technologies

BACHELOR
PROGRAM

5

This program is designed for students who plan to continue with a Baccalaureate degree at South Texas College or to transfer to a four-year college or university to pursue a Baccalaureate degree in Computer Information Systems. It is also designed to prepare students for entry-level positions in the field of computer information systems. The curriculum of the Computer Information Systems degree program focuses on computer programming, principles of business, and general education. Students who wish to declare this transfer major should ask for program planning assistance from a Computer Information Systems program advisor. Transfer institutions vary in the lower division (first two years of college) major department requirements. Meeting the South Texas College Associate of Science degree requirements does not automatically guarantee that all four-year colleges will accept every course toward their degree plan. It is imperative that students work closely with STC departmental faculty and the four-year college faculty in determining transferability of courses.

STEM PATHWAY

Transfer Track: *Computer Science*

Career Cluster/Field of Study:
Computer Science

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses: Computer Science Associate

- Core Completion (42 credit hours)
- COSC 1436: Programming Fundamentals I
- COSC 1337: Programming Fundamentals II

- COSC 2436: Programming Fundamentals III
- COSC 1320: C Programming
- COSC 2425: Computer Organization

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Computer & Information Technology

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

N/A

Associate Level

- Computer Science, AS, 60 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:

South Texas College, Computer & Information Technologies

BACHELOR
PROGRAM

5

This program is designed for students who plan to continue with a Baccalaureate degree at South Texas College or to transfer to a four-year college or university to pursue a Baccalaureate degree in Computer Software Engineering and/or Computer Science. It is also designed to prepare students for entry-level positions in the field of computer science. The curriculum of the Computer Science degree program focuses on computer programming and general education studies. Students who wish to declare this transfer major should ask for program planning assistance from a Computer Science program advisor. Transfer institutions vary in the lower division (first two years of college) major department requirements. Meeting the South Texas College Associate of Science degree requirements does not automatically guarantee that all four-year colleges will accept every course toward their degree plan. It is imperative that students work closely with South Texas College departmental faculty and the four-year college faculty in determining transferability of courses.

STEM PATHWAY

Transfer Track: *Mathematics*

Career Cluster/Field of Study:
Mathematics



CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses: Mathematics Associate

- Core Completion (42 credit hours)
- MATH 1442: Elementary Statistical Methods
- MATH 2412: Pre Calculus Math

- MATH 2413: Calculus I
- MATH 2414: Calculus II
- MATH 2415: Calculus III

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Math, Science & Engineering

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

N/A

Associate Level

- Mathematics, AS, 60 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:
Transfer to a 4 Year University

BACHELOR
PROGRAM

5

The Associate of Science degree with a field of study in Mathematics offers students the opportunity to take a core curriculum of general education with an emphasis in Mathematics. Mathematics majors learn foundational mathematical skills that can be applied in various professions, especially the traditional sciences. The Associate Degree of Science in Mathematics serves as a two-year transferable block to a four-year university for a Mathematics minor or Bachelor of Science in Mathematics. Many potential career opportunities exist for Mathematics majors, including careers in actuarial sciences, aerospace, business, economics & finance, engineering, insurance, medical sciences, education, computer science, and the physical sciences.

STEM PATHWAY

Transfer Track: Science

Career Cluster/Field of Study:
Biology



**CAREER CLUSTER
FIELD OF STUDY**

1

High School Level

Required Courses: Biology Associate

- Core Completion (42 credit hours)
- BIOL 1406: Biology for Science Majors I
- BIOL 1407: Biology for Science Majors II

- BIOL 2401: Anatomy & Physiology I
- BIOL 2421: Microbiology for Science Majors
- CHEM 2423: Organic Chemistry

**SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES**

2

Meta-Major Program Cluster:
Math, Science & Engineering

**SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER**

3

College Level

Certificate Level

N/A

Associate Level

- Biology, AS, 60 credit hours

**SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE**

4

Bachelor Program:
Transfer to a 4 Year University

**BACHELOR
PROGRAM**

5

The Associate of Science Degree with a field of study in Biology offers students the opportunity to take a core curriculum of general education courses with an emphasis in Biology. Many exciting career opportunities are available in the biological sciences. Students should bear in mind that many of the career areas listed require training beyond the Associate of Science degree and some will require a post graduate degree. The following is the list of the career areas one can pursue with a degree in Biology:

- Agriculture
- Biotechnology
- Dentistry
- Dietary Research
- Environmental Science

- Forensic Science
- Genetic Engineering
- Health Sciences
- Marine Science
- Medicine
- Medical Research
- Microbiological Research

- Molecular Biology
- Pharmacology
- Physical Therapy
- Science Education
- Toxicology
- Veterinary Science
- Wildlife Biology

STEM PATHWAY

Transfer Track: Science

Career Cluster/Field of Study:
Chemistry

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses: Chemistry Associate

- Core Completion (42 credit hours)
- CHEM 1411: General Chemistry I
- CHEM 1412: General Chemistry II

- CHEM 2423: Organic Chemistry I
- CHM 2425: Organic Chemistry II
- MATH 2414: Calculus II

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Math, Science & Engineering

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

N/A

Associate Level

- Chemistry, AS, 60 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:
Transfer to a 4 Year University

BACHELOR
PROGRAM

5

The Associate of Science degree with a field of study in Chemistry offers students the opportunity to take a core curriculum of general education with an emphasis in Chemistry. Chemistry students have a wide choice of careers in many different scientific and technical fields. The student should bear in mind that many of the career areas will require training beyond the Associate of Science degree and in some cases a post-graduate degree: Career fields available to Chemistry students:

- Biochemistry
- Chemical Engineering
- Civil Engineering
- Education, secondary and post-secondary
- Environmental Science

- Forensic Science
- Medical Technology
- Mineral Processing
- Molecular Biology
- Oil Refining

- Petroleum Engineering
- Pharmacy
- Plastics Manufacturing
- Water Treatment

STEM PATHWAY

Transfer Track: Science

Career Cluster/Field of Study:
Engineering



CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses: Engineering Associate

- Core Courses (37 credit hours)
- MATH 2414: Calculus II
- MATH 2415: Calculus III
- ENGR 1201: Introduction to Engineering

- CHEM 1411: General Chemistry I or CHEM 1409: General Chemistry for Engineering Majors
- Engineering Elective Courses (4 credit hours)

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Math, Science & Engineering

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

N/A

Associate Level

- Engineering, AS, 60 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:
Transfer to a 4 Year University

BACHELOR
PROGRAM

5

The Associate of Science degree with a field of study in Engineering offers students the opportunity to take a core curriculum of general education with an emphasis on Engineering. At the present time, a high percentage of all the technical and managerial positions in industry are occupied by engineers. Our engineering program prepares students for transfer to a four-year institution where they can specialize in all engineering disciplines such as:

- Aerospace Engineering
- Agriculture Engineering
- Bioengineering
- Chemical Engineering
- Civil Engineering
- Computer Engineering
- Electrical Engineering
- Environmental Engineering
- Industrial Engineering
- Manufacturing Engineering
- Mechanical Engineering
- Nuclear Engineering
- Petroleum Engineering
- Radiological Health Engineering



STEM PATHWAY

Transfer Track: Science

Career Cluster/Field of Study:
Physics

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses: Physics Associate

- Core Completion (42 credit hours)
- MATH 2414: Calculus II
- MATH 2415: Calculus III

- PHYS 2425: University Physics I
- PHYS 2426: University Physics II
- COSC 1436: Programming Fundamentals

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Math, Science & Engineering

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

N/A

Associate Level

- Physics, AS, 60 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:
Transfer to a 4 Year University

BACHELOR
PROGRAM

5

The Associate of Science degree with a field of study in Physics offers students the opportunity to take a core curriculum of general education with an emphasis in Physics. Physics students may select a career in a wide range of scientific and technical fields. The student should bear in mind that most of these career areas require education or training beyond the Associate of Science degree. Career fields available to the physics student include:

- Astronomy
- Biophysics
- Chemistry
- Computer Science
- Elementary or Secondary Education

- Engineering - Civil, Electrical, Industrial
- Geophysics
- Hydrogeology
- Medicine
- Meteorology

- Patent Law
- Physics
- Seismology

STEM PATHWAY

Transfer Track: Science

Career Cluster/Field of Study:
Pre-Pharmacy



CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses: Pre-Pharmacy Associate

- | | |
|-------------------------------------|--|
| - Core Completion (42 credit hours) | - CHEM 2423: Organic Chemistry I |
| - CHEM 1411: General Chemistry I | - BIOL 2421: Microbiology for Science Majors |
| - CHEM 1412: General Chemistry II | - CHEM 2425: Organic Chemistry II |

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
Math, Science & Engineering

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

N/A

Associate Level

- Pre-Pharmacy, AS, 60 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:
Transfer to a 4 Year University

BACHELOR
PROGRAM

5

This two-year program prepares the graduate for application to pharmacy school, a 4 year program leading to licensure as a pharmacist. The individual selecting this program must be dedicated and self-motivated to excel at rigorous academic coursework for the two years of prerequisites at South Texas College and four years of pharmacy school. Graduation from South Texas College does not guarantee acceptance into pharmacy school. South Texas College provides the opportunity for the student to develop a solid basic science knowledge base, complete prerequisites for pharmacy school, participate in essay and interview preparation sessions, review for the Pharmacy College Admission Test (PCAT), and advisement in the pharmacy school application process. Pharmacy schools select entering classes by student merit. Due to a state mandated limit on credit hours for an Associate of Science degree, the student will be expected to complete some prerequisite courses on their own. There is time in the curriculum for the student to complete these courses during summer and second fall semesters.

MULTI-DISCIPLINARY PATHWAY

Associate of Arts Degrees.....	88
Associate of Science Degrees.....	89
Multi-Disciplinary - Associate of Arts Degree.....	90
Multi-Disciplinary - Associate of Science Degree.....	91

HIGH SCHOOL ENDORSEMENT MULTI-DISCIPLINARY



TRANSFER TRACK OPTIONS ASSOCIATE OF ARTS

Independent School District Level	South Texas College
Field of Study	STC Certificates/Associate Degrees Offered
American Sign Language	Refer to Arts & Humanities section
Anthropology	Refer to Arts & Humanities section
Business Administration	Refer to Business & Industry section
Communication	Refer to Arts & Humanities section
Criminal Justice	Refer to Public Service section
Drama	Refer to Arts & Humanities section
Education	Refer to Arts & Humanities section
English	Refer to Arts & Humanities section
Graphic Arts	Refer to Arts & Humanities section
History	Refer to Arts & Humanities section
Kinesiology	Refer to Public Service section
Language & Cultural Studies	Refer to Arts & Humanities section
Mexican - American Studies	Refer to Arts & Humanities section
Music	Refer to Arts & Humanities section
Philosophy	Refer to Arts & Humanities section
Political Science	Refer to Arts & Humanities section
Psychology	Refer to Public Service section
Social Work	Refer to Public Service section
Sociology	Refer to Public Service section
Visual Arts	Refer to Arts & Humanities section

HIGH SCHOOL ENDORSEMENT MULTI-DISCIPLINARY



TRANSFER TRACK OPTIONS ASSOCIATE OF SCIENCE

Independent School District Level	South Texas College
Field of Study	STC Certificates/Associate Degrees Offered
Biology	Refer to Science, Technology, Engineering & Mathematics (STEM) section
Chemistry	Refer to Science, Technology, Engineering & Mathematics (STEM) section
Computer Science	Refer to Science, Technology, Engineering & Mathematics (STEM) section
Engineering	Refer to Science, Technology, Engineering & Mathematics (STEM) section
Mathematics	Refer to Science, Technology, Engineering & Mathematics (STEM) section
Physics	Refer to Science, Technology, Engineering & Mathematics (STEM) section
Pre-Pharmacy	Refer to Science, Technology, Engineering & Mathematics (STEM) section

MULTI-DISCIPLINARY PATHWAY

Transfer Track: Associate of Arts - Interdisciplinary Studies

Career Cluster/Field of Study:
Multi-Disciplinary
(Associate of Arts - Interdisciplinary Studies)

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses: Interdisciplinary Studies Associate

- Core Completion (42 credit hours)

- Field of Study Courses (18 credit hours)

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
N/A

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

N/A

Associate Level

- Interdisciplinary, AA, 60 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:
Transfer to a 4 Year University

BACHELOR
PROGRAM

5

This degree provides students with a broad-based education in "college basics" that promotes critical thinking skills and allows for an opportunity to make an informed choice in educational preferences. The program offers **transferable field of study selections in arts and humanities, social sciences, natural sciences, computer applications, and mathematics**. This field of study is an excellent transfer program that can be used towards the successful completion of a Baccalaureate Degree in any field.

As mandated by Texas Senate Bills 25 (2019) and 1324 (2019), all students declaring an Interdisciplinary Studies major are required to meet with an academic advisor to complete a degree plan. This degree plan must include the courses that will be taken to satisfy the degree requirements, the College or University to which the student is planning on transferring after completing their Associate degree, and how the 60 credits earned to fulfil the Associate degree requirements will be applied to their intended major at that institution.

For more information on how to get started, please contact Dual Credit Pathways at 956-872-6442

MULTI-DISCIPLINARY PATHWAY

Transfer Track: Associate of Science - Interdisciplinary Studies

Career Cluster/Field of Study:
Multi-Disciplinary
(Associate of Science - Interdisciplinary Studies)

CAREER CLUSTER
FIELD OF STUDY

1

High School Level

Required Courses: Interdisciplinary Studies Associate

- Core Completion (42 credit hours)

- Field of Study Courses (18 credit hours)

SOUTH TEXAS COLLEGE
DUAL CREDIT
COURSES

2

Meta-Major Program Cluster:
N/A

SOUTH TEXAS COLLEGE
META-MAJOR
PROGRAM CLUSTER

3

Certificate Level

N/A

Associate Level

- Interdisciplinary, AS, 60 - 62 credit hours

SOUTH TEXAS COLLEGE
DEGREE
OPTION
CERTIFICATE/ASSOCIATE

4

College Level

Bachelor Program:
Transfer to a 4 Year University

BACHELOR
PROGRAM

5

This degree provides students with a broad-based education in "college basics" that promotes critical thinking skills and allows for an opportunity to make an informed choice in educational preferences. The program offers **transferable field of study selections in life science, physical science, computer applications, engineering, mathematics, and allied health sciences**. This flexibility aspect of the field of study for this degree allows students the ability to **develop individualized transfer pathways** that can be used towards the successful completion of a Baccalaureate Degree in any science related discipline.

As mandated by Texas Senate Bills 25 (2019) and 1324 (2019), all students declaring an Interdisciplinary Studies major are required to meet with an academic advisor to complete a degree plan. This degree plan must include the courses that will be taken to satisfy the degree requirements, the College or University to which the student is planning on transferring after completing their Associate degree, and how the 60 credits earned to fulfil the Associate degree requirements will be applied to their intended major at that institution.

For more information on how to get started, please contact Dual Credit Pathways at 956-872-6442

DEFINITIONS

Core Curriculum

The Core Curriculum at South Texas College has, at its foundation, the philosophy and purpose of the College and is a composition of general education courses which form the foundation of all Associate of Arts and Associate of Science degrees. These are degrees that are designed for students who plan to continue their education at a four-year university in order to earn a Bachelor of Fine Arts, Bachelor of Arts or Bachelor of Science degree.

STC is committed to the preparation of intellectually flexible, creative, and productive citizens. Through exposure to a varied range of disciplines and technologies, students will develop:

- an understanding of the importance of lifelong learning
- broad global and social perspectives
- essential skills for tomorrow's workforce

The purpose of the Core Curriculum is to gain a foundation of knowledge of human cultures and the physical and natural world, develop principles of personal and social responsibility for living in a diverse world, and advance intellectual and practical skills that are essential for all learning.

This common body of essential knowledge and skills is taught and reinforced through courses selected in nine Core Components:

1. Communication, 6 credit hours
2. Mathematics, 3-4 credit hours
3. Life and Physical Sciences, 8 credit hours
4. Language, Philosophy & Culture, 3 credit hours
5. Creative Arts, 3 credit hours
6. American History, 6 credit hours
7. Government/Political Science, 6 credit hours
8. Social and Behavioral Sciences, 3 credit hours
9. Component Area Option, 3-4 credit hours

Dual Credit

Dual Credit allows high school students to enroll in college courses while attending high school and permits students to take courses in place of, or in addition to, the normal course load at the high school. High school students admitted to the College must meet Student Eligibility criteria outlined in Texas Higher Education Coordinating Board Rule Title 19, Part I, Chapter 4, Subchapter D, Rule 4.85.

General Education

All workforce education students at STC are required to complete a minimum of 15 credit hours in general education courses before receiving an A.A.S. degree. These 15 credit hours of general education courses must include at least one course in each of the following three areas:

1. Humanities/Fine Arts
2. Social/Behavioral Sciences; and
3. Mathematics/Natural Sciences

Associate Degree

Associate degree programs are designed so that you can earn an undergraduate degree while you work full time. It's a viable credential that can build your career, or it can provide a springboard into a bachelor's program.

Certificate

Certificate programs offer concentrated study to help you become specialized in your field without having to meet the extended requirements of a standard degree program. Earn a certificate to learn more about a subject, become expert in an emerging field, or boost your career. The programs are abbreviated enough to easily fit into the schedule of a busy professional, but thorough enough to give you a deep knowledge and understanding of the subject matter as well.

Dual Enrollment Academy Program

The Academy Programs is a competitive entry selection process and is cohort based (junior and senior students). The Academy Programs are held at the Mid-Valley Campus, Pecan Campus, and Starr County Campuses.

Industry-Based Certification

South Texas College Workforce Programs offers Dual Credit students the opportunity to earn an Industry-Based Certification recognized by the Texas Education Agency (TEA) and/or the Industry group. The college overall offers different industry certifications through its workforce programs.

Meta-Majors/Program Clusters

A "Meta-Major" is a grouping of "majors" sharing common elements, including *content*, *career paths*, and *curriculum*. Selecting a Meta-Major allows you the chance to explore without committing to a single major on day one.

CONTACT INFORMATION

DUAL CREDIT PROGRAMS

Dual Credit Pathways Office
956-872-6442

Dual Enrollment Academy Programs Office
956-872-2619

Email

stcdual@southtexascollege.edu

Website

www.southtexascollege.edu/dual

Facebook

<https://www.facebook.com/stcdual>

Twitter

<https://twitter.com/stcdual>

transferability

Student looking to transfer can take advantage of one of the **over 150 agreements** South Texas College has with university partners.

Through these partnerships, students are able to **complete two years at South Texas College** and obtain an Associate degree, **then transfer to complete two more years for their bachelor's degree.**

In addition, the College's *Transfer Center* is yet another resource where students can meet with representatives from transfer institutions and receive information on new articulation agreements that could impact their future choices.





SOUTH TEXAS COLLEGE

Notice of Non-Discrimination

South Texas College is an equal education and equal employment opportunity/affirmative action employer. As an equal education institution and equal opportunity employer, the College does not discriminate on the basis of race, color, national origin, religion, age, sex, sexual orientation, gender, gender identity, disability, genetic information, or veteran status. Discrimination is prohibited and the College will comply with all applicable College policies, and state and federal legislation. This statement extends to individuals seeking employment with and admission to the College.

South Texas College Accreditation

South Texas College is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award the Baccalaureate and Associate degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about the accreditation of South Texas College.

Dual Credit Programs NACEP Accreditation Statement

South Texas College Dual Credit Programs is accredited by the National Alliance of Concurrent Enrollment Partnerships in meeting the highest standards in concurrent enrollment, dual credit initiatives, and displaying greater accountability through program evaluation. Contact the National Alliance of Concurrent Enrollment Partnerships at P.O. Box 578 Chapel Hill, NC 27514 or call 919-593-5205 for questions about accreditation of South Texas College Dual Credit Programs.