STCC
Springfield Technical Community College

College Guide

Fall 2019

Credit Courses
Workforce Development

Manufacturing Job Training

Get the job of the future with STCC's cutting-edge programs! Our Optics & Photonics degree program is the only one in New England! See page 15.

Smart $tart

Save **thousands** on your bachelor's degree. We partner with leading colleges and universities for **you**! See pages 10 and 11.

Early College

Are you in high school? Looking to earn college credits? Or are you looking for a GED/HiSET option? Check out our **free** College Now and Gateway to College programs on pages 8 and 9.

What's your path?

STCC offers job training programs as well as certificates and degrees. All are one form of career credential, so which one is right for you?

Are you a working professional?
Are you looking for additional skills to earn a bigger paycheck?

Check out our online and in-person professional development opportunities on pages 3–6.

Are you a high school student or recent graduate?
Or are you mid-career and thinking of doing something new?
Are you a STCC student working toward a degree and want to know what comes next?

Then check out our options in certificates of completion, associate degrees, or transfer opportunities on page 13!

PRO TIP: *Maximize opportunities with our College Now Dual Enrollment Program (up to 8 classes during high school) and the STEM Starter Academy (biology, math, and English classes), you can complete up to* ***eleven free classes at STCC… For free!!!*** *That's one year of full-time college… for free!*

Instant Accept Days

Register now to get the classes you want. Classes are filling fast! STCC has small classes and the most affordable options!

Learn more at stcc.edu/admissions

Tour the STCC Campus

We offer tours every Wednesday at 10:00 am and 3:00 pm. Tours begin at the Admissions Office in Building 19, 1 Armory Square, Springfield, MA.

Learn more at stcc.edu/apply/visit-us

Let's get started.

Contents

New Programs for Fall 2019

FLEX TERMS

Starting with Fall 2019, we're we're launching two intensive 7-week "Flex Terms" within the traditional 14-week semester.

Students enrolled in the shortened terms also have the option of completing a two-course sequence within a single term. For example, they can complete Accounting 1 and 2 over the course of the two Flex Terms.

Fall-1 Flex Term: Sept 3–Oct 22
Fall-2 Flex Term: Oct 23–Dec 13
Fall Semester: Sept 3–Dec 13

See page 14 for details and course listings.

DEGREE & CERTIFICATE PROGRAMS

STCC is pleased to offer new and exciting programs for our students.

Applied Psychology

The new Applied Psychology program provides a broad-based education needed to satisfy the demand for those navigating the field of Behavioral Health, including hands-on courses in healthcare in which students gain patient care skills.

Two-year Associate Degree in Arts
Learn more: stcc.edu/explore/programs/apsy.aa

Bachelor's in Biology (with Biotechnology concentration) with Westfield State

Biotechnology encompasses a broad range of applications that industrial production of pharmaceuticals such as vaccines and insulin, genetic testing, DNA fingerprinting and genetic engineering of plants.

Learn more: stcc.edu/transfer

Building Automation

Building automation refers to the automatic centralized control of a building's heating, ventilation and air conditioning (HVAC), lighting and other systems through a building management system or building automation system. The objectives of building automation are improved occupant comfort, efficient operation of building systems, reduction in energy consumption and operating costs, and improved life cycle of utilities.

Two-year Associate Degree in Science
Learn more: stcc.edu/explore/programs/esba.as

Child Development Associate Plus

The Child Development Associate Plus Certificate of Completion will prepare graduates to sit for credentialing as Child Development Associates (CDAs) through the Council for Professional Recognition. Credentialing offers early educators working with children ages birth to 5 years old the opportunity to demonstrate their knowledge, skills and abilities in the early childhood education field. The CDA credentialing program assesses candidates using multiple sources evidence, including an exam, observation and professional portfolio with resources and competency statements prepared by the candidate.

One-year Certificate of Completion
Learn more: stcc.edu/explore/programs/cda.coc

Computer Science or Computer IT & Security - Accelerated Bachelor's Degree with Elms

STCC now offers accelerated pathways to complete bachelor's degrees online at Elms College. You can earn your degree in just over 3 years!

Learn more at stcc.edu/transfer

Internet of Things (IoT)

The Internet of Things is a blend of electronic sensors or actuators, networks of small energy-efficient computers, and the data centers used to collect the data from the IoT nodes or control the devices. IoT requires skills from engineering, electronics, security, and information technology. While these disciplines are typically separate and distinct, this Certificate of Completion bridges the knowledge and skills necessary to create and administer secure Internet of Things systems.

One-year Certificate of Completion
Learn more: stcc.edu/explore/programs/iot.coc

Urban Studies 2+2+1 with Worcester State

Prepare for a career in civic engagement, municipal planning, public policy, community organization, or nonprofit management! STCC is pleased to announce a new agreement with Worcester State University where you can earn an associate degree at STCC, and transfer to WSU to complete your bachelor's and master's degrees!

Two-year Associate Degree in Arts
Options for Bachelor's and Master's degrees
Learn more: stcc.edu/explore/programs/urbn.aa

workforce development center **at STCC**

Looking for job skills or professional development opportunities to advance your career? We have 'em!

Unemployed? We work with MassHire to help you find the best training opportunities to keep you working.

Employers... Need a training program you don't see in these pages? Call us. We can build custom training for your organization!

Please visit stcc.edu/wdc for class schedules and registration information.

ASPHALT ACADEMY

STCC's Asphalt Academy trains students for the Northeast Transportation Training and Certification (NETTCP) Program. Learn more at stcc.edu/wdc/asphalt-academy.

Hot Mix Asphalt Plant Technician
For individuals responsible for the sampling and testing of hot mix asphalt at the production facility.
(36 Hour Training, 30 Day Internship, $1,450)

Hot Mix Asphalt Paving Inspector
For those individuals responsible for inspecting, sampling and testing of hot mix asphalt in the field.
(20 Hour Training, 30 Day Internship, $770)

Soils & Aggregate Inspector
for those individuals responsible for the sampling and testing of soils and aggregates used in base, subbase and roadway embankment construction.
(24 Hour Training, 30 Day Internship, $925)

AUTOMOTIVE

STCC also offers one-year certificates of completion and two-year associate degree options. See stcc.edu for details.

Auto Damage Appraiser License Exam Prep
Students completing this training will be prepared to take Part 1 of the Massachusetts Automobile Damage Appraisers License Examination. (60 Hours, $649)

CONSTRUCTION & SKILLED TRADES

STCC also offers one-year certificates of completion and two-year associate degree options. See stcc.edu for details.

Electrical 1
Electrical Trade, Safety, Circuits, Theory; National Electrical Code (NEC); Device Boxes; Hand Bending; Raceways and Fittings; Conductors and Cables; Basic Drawings; Residential Electrical Services; Electrical Test Equipment. (168 Hours, $1,503)

Electrical 2
Alternating Current; Motors; Lighting; Conduit Bending; Pull and Junction Boxes; Conductor Installations; Cable Tray; Conductor Terminations and Splices; Grounding and Bonding; Circuit Breakers and Fuses; Control Systems. (168 Hours, $1,503)

Electrical 3
Load Calculations – Branch Feeders and Circuits; Conductor Selection and Calculations; Lighting; Hazardous Locations; Overcurrent Protection; Distribution Equipment; Transformers; Voice, Data, and Video; Motor Controls. (168 Hours, $1,503)

Electrical 4 (Code Review)
Load Calculations – Feeders and Services; Health Care Facilities; Standby and Emergency Systems; Basic Electronic Theory; Fire Alarm Systems; Specialty Transformers; Advanced Controls; HVAC Controls; Heat Tracing and Freeze Protection; Motor Operation and Maintenance; Medium-Voltage Terminations/Splices; Special Locations; Crew Leadership. (168 Hours, $1,503)

Master Electrician
Prepares students to pass the Commonwealth of Massachusetts, Certificate A (Master) Electrician License Exam. (168 Hours, $1,623)

Plumbing Tier 1
Basic Safety; Construction Math; Hand Tools; Power Tools; Construction Drawings; Basic Rigging; Materials Handling; Safety; Plumbing Drawings; Plastic Pipe and Fittings; Copper Tube and Fittings; Cast-Iron Pipe and Fittings; Carbon Steel Pipe and Fittings; Fixtures; Drain, Waste, and Vent (DWV) Systems. (120 Hours, $1,054)

Massachusetts Construction Supervisor's License (CSL) Exam
STCC has teamed up with Construction Supervisor Training to offer training for the CSL Exam. (24.5 hours, $350 + cost of books)

DRONE PILOTING

Professional Drone Flying Training for FAA Certification
This course is comprehensive, hands-on training that gives you all the vital skills and information you need to start piloting Small Unmanned Aircraft Systems sUAS (drones) safely and legally. (18 Hours, $1,490)

ESL

English as a Second Language ESL Level 1
This is an introductory course that emphasizes the basics in conversation, reading, writing, and vocabulary development. (60 Hours, $299)

English as a Second Language ESL Level 2
Emphasis is on the further development of reading, listening, comprehension, and speaking skills in English. (54 Hours, $299)

English as a Second Language ESL Level 3
Students who successfully complete this course will be well prepared to enter the College level, credit courses in English as a Second Language. (54 Hours, $299)

Conversational English
This class is designed for speakers of other languages to engage and improve their speaking/communication skills. Conversations in classes will be guided by student's interests. (24 Hours, $229)

FITNESS

Professional Fitness Trainer Certification
This hybrid course is a great way to prepare for the Level 1 Certified Personal Trainer exam. 15 hours online, 15 hours training in a fitness center. (30 Hours, $749)

FOOD & GARDENING

ServSafe® Preparation & Exam
This course is designed to help food service professionals master industry standards for cleanliness along with safety requirements for food handling and prep. (8 Hours, $109)

ServSafe® Recertification Preparation & Exam
Renew your your ServSafe® Food Handling and Sanitation Certificate. (2 Hours, $79)

HEALTHCARE

STCC also offers one-year certificates of completion and two-year associate degree options. See stcc.edu for details.

CNA I
Enter the healthcare field and prepare for the MA State Board Examination to become a Certified Nurse Aide (CNA) and receive certification in CPR. (104 Hours, $1,295)

CNA II (formerly CNA Plus)
Includes CNA I plus focus is placed on Home Health Aide training. Students will also learn about family issues, meal preparation, social activities, housekeeping and more. (140 Hours, $2,395)

CPR - Basic Life Support for Healthcare Providers
The course is intended for certified or noncertified, licensed or non-licensed healthcare professionals. (8 Hours, $119)

CPR - Basic Life Support Refresher
Refresh your training in the lifesaving skills of both CPR and relief of choking. (3 Hours, $59)

Dental Radiology Certificate Training
– The only program west of Boston
This intensive two-week hybrid (on-line and clinical component) course trains dental assistants in the fundamentals of dental radiography. (12 Hours Online, 12 Hours Clinical, $289)

AUTHORIZED TESTING CENTER

STCC also offers an Authorized Testing Center to deliver professional, industry, federal, and state certification and licensure exams.

We offer proctoring services and partner with several leading high stakes testing providers: ATI (TEAS exam); Castle; Certiport; Comira; HiSET; ISO-Quality Testing; PAN Testing; PRAXIS; PSI; TOEFL; Pearson VUE; WorkKeys.

Emergency Medical Technician (EMT) Training Program
Student will gain an excellent foundation in Basic Life Support skills and techniques; patient assessment; and safe, sane transportation. (188 Hours, $1,149)

Heartsaver™ First Aid
Students learn skills to treat bleeding, sprains, broken bones, shock, and other first aid to treat an emergency in the first few minutes until EMS arrives. (4 Hours, $69)

Medical Interpreting Certificate (in-person)
Program is designed for those preparing for entry-level careers as medical interpreters as well as for working interpreters preparing for the National Board Certificate exam. (60 Hours, $1,070)

Medical Interpreting Certificate - Spanish or Portuguese (online)
Self-paced, interactive training that prepares students for careers in the growing field of medical interpretation. (16 Hours, $259)

Phlebotomy Technician
Students learn to perform venipuncture and capillary puncture in order to obtain blood specimens for diagnostic procedures, and is prep for the NHA Certified Phlebotomy Technician (CPT) exam (166+ Hours, $2,025)

Phlebotomy for the Healthcare Worker
Students currently working in a certified healthcare position learn to perform venipuncture and capillary puncture in order to obtain blood specimens for diagnostic procedures. (60 Hours, $1,298)

HVAC

STCC also offers one-year certificates of completion and two-year associate degree options. See stcc.edu for details.

MA Oil Burner Code Update Course
Course will cover the new Massachusetts Oil Burner Code (527CMR1) and the Commonwealth's additions and deletions of NFPA1 concerning installation and permitting of oil burner equipment. (8 Hours, $149)

INFORMATION TECHNOLOGY

STCC also offers one-year certificates of completion and two-year associate degree options. See stcc.edu for details.

Essentials for CWT/CWS Certification
Install and configure access points based on a design document for initial operations and ensure connectivity. Troubleshoot basic problems and assist users in problem resolution. (28 Hours, $839)

Essentials for Cisco CCENT Certification
Validate the ability to install, operate and troubleshoot a small enterprise branch network, including basic network security.
(40 Hours, $1,195)

Essentials for Comp TIA Network+ Certification
Vendor-neutral certification to recognize and describe the features and functions of networking components and to install, configure and troubleshoot basic networking hardware, protocols and services. (36 Hours, $999)

Introduction to Local Area Networks
Students will explore networking fundamentals; to demystify how network transmissions travel from one PC to another over a network, or from one network to another network. (8 Hours, $199)

PC/Network Technician Certification Program
Prepare for four IT Industry Certifications: the CompTIA A+ Service Technician, Certified Wireless Technology Specialist (CWT/CWS), Microsoft MTA Networking Fundamentals, and MTA Operating Systems Certifications. (168 Hours, $3,799)

Master PC/Network Technician
Prepare to work in the demanding and exciting field of IT Helpdesk and PC/Network Support. (420 hours, $5,125)

TCP/IP Networking Essentials
Explore the TCP/IP protocol suite through an understanding of how the OSI model works. (8 Hours, $199)

Microsoft MTA Networking Fundamentals Certification
Topics include basics of LANs and WANs, the OSI Model, wired and wireless networks, Switches, Routers, VLANs, TCP/IP, and network security. Preps for Microsoft Exam 98-366. (28 Hours, $839)

Microsoft MTA Windows 10 Certification
Entry-level training for careers in IT, and assumes some hands-on experience or training but does not assume on-the-job experience. Prep for Microsoft exam 98-349. (28 Hours, $839)

Microsoft MTA Windows Server 2016
This course covers the core concepts and technologies you need to administer a Windows Server environments from 2008 to 2016. Prep for Microsoft exam 98-365. (28 Hours $839)

Microsoft Office Word 2016 Core
Improve word processing skills, and/or become Microsoft Office Certified. (16 Hours, $259)

Microsoft Office Excel 2016 Core
Improve basic Excel spreadsheet skills, and/or become Microsoft Office Certified. (16 Hours, $259)

Microsoft Office PowerPoint 2016 Core
Improve basic PowerPoint skills, and/or become Microsoft Office Certified. (16 Hours, $259)

Microsoft Office Word 2016 Expert
Attain an advanced understanding of Word in document and content management, and advanced formatting. Prepares students for the MOS Word Expert 2016 Exam (16 Hours, $259)

Microsoft Offce Excel 2016 Expert
Attain an advanced understanding of Excel and the ability to guide others to the proper use of the program's features. Prepares students for the MOS Excel Expert 2016 Exam (16 Hours, $259)

MANUFACTURING

STCC also offers one-year certificates of completion and two-year associate degree options. See page 15 for details.

2 Axis Lathe – Operator
Students simulate programs using Vericut software and cut parts on CNC lathes using turnkey setups. (24 Hours, $789)

2 Axis Lathe – Setup Technician
Machine setup is covered for student to performing a first article inspection on the completed part. (24 Hours, $789)

2 Axis Lathe – Programmer
Students work with a blueprint and complete the entire programming process to verifying the finished part in Vericut simulation software. (24 Hours, $789)

3 Axis CNC Mill – Operator
Students learn the importance of cycle time, repeatability, tool wear, and optional stops. (24 Hours, $789)

3 Axis CNC Mill – Setup Technician
Students will cut their first piece and inspect their own work, adjusting offsets as necessary to produce a part within blueprint specifications. (24 Hours, $789)

3 Axis CNC Mill – Programmer
Students will write programs to face the top of the workpiece, rough mill and finish contours, drill holes, tap threaded holes, and ream precision holes. (24 Hours, $789)

REAL ESTATE

Preparing for the Real Estate Sales Exam
This course will help you gain the knowledge you need to successfully pass the licensing exam and start your career in real estate sales. (40 Hours, $399)

WATER TREATMENT

Basic Drinking Water Treatment
Course teaches the general concepts of drinking water treatment operations. Passing this course is a prerequisite for taking the Grade 2 Treatment examination.
(42 hours, $TBD)

LEARN ONLINE

Hundreds of online classes
Dozens of topics

Affordable, Self-Paced, 24-Hour Access
VISIT: stcc.edu/wdc/online education
CALL: (413) 755-4225

Massachusetts Casino Career Training Institute

CASINO OPERATIONS

STCC offers many short non-credit classes as well as 1-year certificate and 2-year associate degree programs to help prepare you for careers in a hotel resort environment.

Completion of these programs **does not guarantee** interviews or employment with MGM Springfield.

Food Safety

- ServSafe Certification
- ServSafe Re-certification

Safety & Security

- OSHA-10 General Safety
- Private Security Training

Recreation/Spa

- Cosmetology
- Personal Trainer

Computers and Networking

- Cisco
- Computer & IT Security
- Computer Systems Engineering Technology
- CompTIA Network+ Certification
- Microsoft Office, Windows, Windows Server
- PC/Network Technician Certification

Business & Marketing

Skilled Trades

High School Equivalency

English Language Learners

Visit stcc.edu/wdc/mccti for class schedules

GAMING SCHOOL

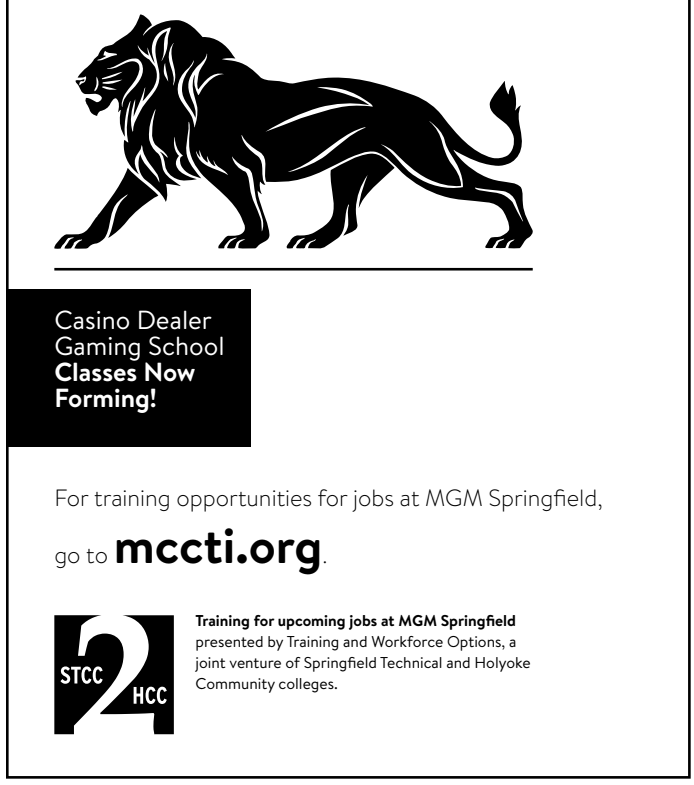
Training and Workforce Options (TWO) a joint venture of Springfield Technical Community College and Holyoke Community College offers a variety of career training options for the casino resort industry,

Classes are currently held Monday-Thursday at 95 State Street, Springfield in:

- Blackjack
- Carnival Games
- Craps
- Mini Baccarat
- Poker
- Roulette

Successful completion of Poker or Blackjack plus Carnival Games **will guarantee an audition for employment** with MGM Springfield.

Visit mccti.org for class schedules



Dual Enrollment for High School Students

Take up to EIGHT FREE COLLEGE CLASSES while you're still in high school!

College Now is a dual enrollment program that allows high school students to enroll in one STCC credit course per semester free of charge. Students who begin their junior year can take up to four free courses!

Over 620 students participated in 2018!

Please note: If a student chooses to register for an additional course during the semester they will be required to pay for that additional course in full.

PROGRAM ELIGIBILITY

In order to be eligible for participation, students must meet the following criteria:

- Junior or senior status in high school
- Minimum high school GPA of 2.0
- Cumulative STCC GPA of 2.0 for any previous College Now courses

HOMESCHOOLED STUDENTS

Homeschooled students are welcome and encouraged to participate. Your application must be signed by your school district superintendent or designated school district official.

HOW TO APPLY

Complete the College Now Application and choose three course options with your school counselor. A school counselor or designated school official must sign the application.

Students must meet all course prerequisite requirements. A student may be required to take a placement test prior to registering for the course. Students can view prerequisite requirements by viewing the course description from the schedule of classes at stcc.edu/explore/schedules.

Submit your application to the Admissions Office. We are located in the Ira H. Rubenzahl Student Learning Commons (Bldg 19), Room 168. Or send a fax to (413) 755-6344 or email a PDF to collegenow@stcc.edu.

Students will receive their schedule via email after the application deadline has passed.

Students are responsible for paying for any additional course fees, if applicable.

stcc.edu/apply/collegenow

PATHWAYS TO PROSPERITY

The **Advanced Manufacturing Career Pathway at West Springfield High School** trains Westside students for in-demand and high-paying careers in manufacturing with knowledge of CAD, CAM, Quality concepts, additive manufacturing, and the set-up and operation of multitasking CNC equipment.
Learn more at stcc.edu/apply/collegenow/west-springfield

COLLEGE NOW CREDITS

Credits earned automatically apply to STCC degree programs. You may also choose to transfer these credits to other colleges.

APPLICATION DEADLINES

July 1 - Fall
Dec 1 - Spring

INFORMATION SESSIONS

July 17
August 14

The College Now Dual Enrollment Program is funded in part by the Commonwealth Dual Enrollment Partnership.

HIGH SCHOOL CLASS CREDITS

STCC also partners with local high schools to offer college-equivalent credit for certain classes taken at the high school level. Check with your guidance counselor to learn about opportunities in your school.

Gateway to College for High School Students

GATEWAY to COLLEGE

Gateway to College is a scholarship program at STCC that helps students who have faced significant challenges in a tradiitonal high school setting, including those who are behind in credits, not on track to graduate, or have left school.

Through our program, students can obtain their high school diploma and earn college credits at the same time. Many of our graduates go on to finish certificate programs, associate degrees, and transfer to four-year colleges and universities.

The Gateway scholarship covers the cost of tuition, books, and fees. In addition, students have an academic counselor dedicated to their success. The counselor guides students through the college experience, coaches them around career exploration, organization and time management, and provides referrals for college and community resources.

PROGRAM ELIGIBILITY

- Students who are residents of Springfield or Agawam.
- Students who are 16 to 20 years of age (must be able to obtain their high school diploma by the age of 21 (or age 22 with an IEP).
- Students who have faced significant challenges in traditional high school for a variety reasons:
  - Behind in high school credits
  - Left high school before obtaining a diploma
  - Attend a school other than a public school or various reasons, including homeschooling
- Students who are able to read at an 8th grade reading level or higher.

PROGRAM EXPECTATIONS

- Good attendance.
- Be on time, be prepared, and complete all class and homework assignments.
- Set aside time for studying daily, and attend tutoring as needed.
- Attend regular meetings with academic advisor and maintain close communication with your professors and the Gateway staff.
- Respectful and responsible behavior.
- Adherence to all STCC policies and procedures.

SPECIAL EDUCATION SERVICES

Gateway to College does not discriminate against students with disabilities. We request that students with an IEP or 504 plan submit copies of the plan with their application.

Together with their families and doctors or other practitioners, students should consider whether the services and accommodations available on a college campus will best serve their needs.

HOW TO APPLY

Step 1: Attend an information session, held online or on Wednesdays at 3:30 p.m. in Garvey Hall (bldg 16), room 299. Visit stcc.edu/gateway to watch our video or to view the in-person schedule.

Step 2: Make an appointment to take the College Placement Test.

Step 3: Complete the Gateway to College application at stcc.edu/gateway.

Step 4: Your application is sent to the Springfield or Agawam school district for approval.

Step 5: Participate in an Individual Interview (by appointment only).

Step 6: Selection Committee Review.

Once each of these steps is completed satisfactorily, Gateway to College staff will contact applications with a decision.

stcc.edu/gateway

QUESTIONS?

If you have any questions about the program, or the application process, please contact us at (413) 755-4480.

Detailed information and application instructions are available at stcc.edu/gateway.

Gateway to College is a competitive scholarship program funded through the Massachusetts Department of Elementary and Secondary Education (DESE) and the Massachusetts High School Graduation Initiative (MassGrad).

Transfer to a 4-Year College or University

STCC offers students who plan to transfer their associate degree credits to a 4-year college or university easy pathways with significant financial savings.

Students interested in transferring to four-year institutions should plan early to meet requirements at the college they plan to attend. College transfer representatives come to campus to meet with STCC students throughout the year.

Our transfer programs are specifically designed for students who plan to transfer to a 4-year college or university after earning an associate degree at STCC.

stcc.edu/transfer

SPRINGFIELD-AREA JOINT ADMISSIONS PROGRAM

Our joint admissions agreements with **American International College, Bay Path University, Elms College, Springfield College,** and **Western New England University** guarantees STCC students acceptance into these schools. These agreements also provide scholarships to eligible STCC graduates who transfer to these 4-year institutions.

SMART $TART

Start your bachelor's degree at STCC and save THOUSANDS of DOLLARS at schools like:

Massachusetts Public Campuses

UMass (Amherst, Boston, Dartmouth, or Lowell)
Bridgewater State University
Fitchburg State University
Framingham State University
Salem State University
Westfield State University
Worcester State University
Massachusetts College of Liberal Arts (MCLA)
Massachusetts College of Art and Design (MassArt)
Massachusetts Maritime Academy

Other Colleges & Universities

American International College (AIC)
Bay Path University
Cambridge College
Charter Oak State College
Elms College
Northeastern University
Southern New Hampshire University (SNHU)
Springfield College
Wentworth Institute of Technology
Western New England University

MASS TRANSFER

Graduate from an approved major at STCC with a minimum cumulative GPA of 2.5 or higher. Participating students are subject to the program requirements in effect at the transfer institution when they enroll at STCC. All MassTransfer programs at STCC incorporate the Gen Ed Foundation (formerly, the MassTransfer Block) as part of their course requirements.

COMMONWEALTH COMMITMENT

The Commonwealth Commitment provides financial incentives to students who begin their higher education at STCC and then transfer to a Massachusetts public campus, including UMass and Westfield State University. Students must maintain continuous, full-time enrollment while maintaining a minimum 3.0 GPA, and are required to complete their associate degree in 2½ years (or less), and then complete their bachelor's degree in 2 additional years (or less). Financial incentives include a freeze in tuition and mandatory fees for the entirety of a student's enrollment period, as well as a 10% refund (of tuition and mandatory fees) at the conclusion of each fall and spring semester.

Transfer Agreements

STCC is proud to offer bachelor's degree completion pathways at these fine institutions.

Northeastern University and **Southern New Hampshire University** offer additional transfer options to STCC graduates.

Students are not bound to these specific programs and are encouraged to seek pathways suited to their skills and interests. A wide variety other transfer pathways at **Massachusetts public colleges and universities** are available through MassTransfer or the Commonwealth Commitment.

Anna Maria College offers the Heart Advantage Scholarship (a $23,000 value) to STCC associate degree transfer students with a 2.8 GPA, for admission to selected programs of study.

Students are responsible for ensuring that the courses they take at STCC will satisfy requirements at their transfer college or university.

All students are strongly encouraged to meet with a representative from the institution to which they plan to transfer, for advice on course selection.

Programs in effect for Fall 2019. Learn more at stcc.edu/transfer.

CHARTER OAK STATE COLLEGE

BS in Health Information Management

Requires STCC associate degree in Health Information Technology or the certificate in Medical Coding and Billing.

CAMBRIDGE COLLEGE

BS in Criminal Justice

Requires STCC associate degree in Criminal Justice or Criminal Justice Transfer.

ELMS COLLEGE

Accelerated Bachelor of Social Work (BSW)

Requires STCC associate degree in Human Services/Social Work.

BA in Graphic Design

Requires STCC associate degree in Graphic Design.

BA in Healthcare Management

Requires STCC associate degree in Health Information Technology or Medical Coding and Billing Specialist.

BA in Computer Information Technology and Security or BA in Computer Science

Requires STCC associate degree in one of: Computer and IT Security, Computer Science, or Programmer.

SOUTHERN NEW HAMPSHIRE UNIVERSITY (SNHU)

BS in Information Technology (Cybersecurity or Network Telecom)

Requires STCC associate degree in Computer Systems Engineering Technology or in Computer Information Technology.

WENTWORTH INSTITUTE OF TECHNOLOGY

BS in Project Management

Requires STCC associate degree.

WESTFIELD STATE

RN to BSN

Requires STCC associate degree in Nursing.

BS in Biology (with Biotechnology concentration)

Requires STCC associate degree in Biotechnology Transfer.

WORCESTER STATE

BS (and MS) in Urban Studies

Requires STCC associate degree in Liberal Arts/General Studies (Urban Studies Track).

Academic Calendar/Office Hours/Phone Numbers

OFFICE HOURS FOR ENROLLMENT SERVICES

Admissions Office (413) 755-3333
Building 19, 1st floor

Monday–Thursday	7:30am - 7:00pm
Friday	7:30am - 5:00pm

Instant Accept Day is Every Day!

No appointment necessary. Just bring your official high school transcript, GED or HiSET scores/transcript.

Registrar's Office (413) 755-4321
Building 19, 1st floor

Monday–Thursday	7:30am - 7:00pm
Friday	7:30am - 5:00pm

Student Financial Services (413) 755-4214
Building 19, Room 287

Monday–Thursday	7:30am - 7:00pm
Friday	7:30am - 5:00pm

Academic Advising and Transfer Center (413) 755-4857
Building 19, Room 232

Monday–Thursday	7:30am - 7:00pm
Friday	7:30am - 5:00pm

CAMPUS PHONE NUMBERS

Adult Learning Center	(413) 755-4300
Bookstore	(413) 755-4431
Disability Services	(413) 755-4785
English Language Learners	(413) 755-4423
Library	(413) 755-4845
Parking	(413) 755-4238
Student Success Center	(413) 755-4715
Testing & Assessment Center	(413) 755-4709
Veterans Services	(413) 755-5343
Workforce Development Center	(413) 755-4225

Fall 2019 ACADEMIC CALENDAR

Saturday, August 31 - Monday, September 2	LABOR DAY WEEKEND/COLLEGE CLOSED
Tuesday, September 3	Fall and Fall-1 classes begin
Thursday, September 5	Last day for students to make changes to their Fall-1 schedule, and drop classes without financial penalty.
Monday, September 9	Last day for students to make changes to their Fall schedule, and drop classes without financial penalty.
Wednesday, October 9	Last day to withdraw from Fall-1classes.
Monday, October 14	COLUMBUS DAY/COLLEGE CLOSED
Tuesday, October 15	All classes follow a Monday schedule.
Tuesday, October 22	Last day of Fall-1 classes.
Wednesday, October 23	Fall-2 classes begin.
Friday, October 25	Fall mid-semester grades available on WebAdvisor. Last day for students to make changes to their Fall-2 schedule, and drop classes without financial penalty.
Monday, October 28	Advising period for Winter 2019 and Spring 2020 Priority Registration Begins.
Monday, November 11	VETERANS' DAY/COLLEGE CLOSED
Wednesday, November 13	Winter 2019 and Spring 2020 Priority Registration begins. Day classes follow a Monday schedule.
Monday, November 18	Winter 2019 and Spring 2020 registration for incoming students begins.
Monday, November 25	Last day to withdraw from Fall classes.
Wednesday, November 27	No evening classes.
Thursday, November 28 - Saturday November 30	THANKSGIVING RECESS/COLLEGE CLOSED
Tuesday, December 3	Last day to withdraw from Fall-2 classes.
Thursday, December 5	Last day to file a Candidate for Graduation form with Registrar's office for January 2020 graduation.
Saturday, December 7	Final exams for Saturday classes.
Wednesday, December 11– Friday, December 13	Final exams for Fall evening and online classes.
Friday, December 13	Last day of Fall day classes and Fall-2 classes.
Monday, December 16	Final exams for Fall Monday evening classes.
Monday, December 16 – Thursday, December 19	Final exams for Fall day classes.
Friday, December 20	Final exam make-up date.
Saturday, December 28	Final grades available on WebAdvisor.

Academic Programs

Associate Degree Programs & Options (Two years)

Applied Psychology
Architecture & Building Technology
Art
Automotive Technology*
Biology Transfer
Biomedical Equipment Technology
Biomedical Manufacturing Technology
Biotechnology
Building Automation
Building Construction Management
Business**
Business Transfer**
Chemistry Transfer
Civil Construction Management
Civil Engineering Technology
Communication and Digital Media Transfer
Computer & IT Security
Computer Science Transfer
Computer Systems Engineering Technology
Criminal Justice
Criminal Justice Transfer
Dental Hygiene*
Diagnostic Medical Sonography*
Digital Audio Broadcasting
Digital Photography
Early Childhood Education
Early Childhood Education Transfer
Electrical Engineering Technology
Electronic Systems Engineering Technology
Energy Systems Technology
Engineering Transfer
Fire Protection & Safety Technology
General Studies
Graphic Design
Health Information Technology
Health Science
Human Services/Social Work
Interactive Media & Animation Design Technology
Landscape Design & Management Technology
Mathematics Transfer
Mechanical Engineering Technology
Medical Assistant*
Medical Coding & Billing Specialist
Medical Laboratory Technician*
Medical Office Administrative Assistant
Nursing*
Occupational Therapy Assistant*
Optics & Photonics
Physical Therapist Assistant*
Physics Transfer
Professional Office Administrative Assistant
Programmer
Radiologic Technology*
Respiratory Care*
Surgical Technology*
Teacher Education Transfer – Elementary
Teacher Education Transfer – Secondary
Technical Engineering Transfer
TV Production Technology
Urban Studies
Web & Advertising Design

Certificate Programs (One year)

Architectural
Automotive Technology*
Biotechnology
Building Construction Management
CAD/CAM
Child Development Associate Plus
Civil Construction Management
Civil Engineering Technology
Clerical Office Assistant
CNC Operations
Computed Tomography
Computer & IT Security
Computer Systems Engineering Technology
Cosmetology*
Criminal Justice
Dental Assistant*
Digital Photography
Digital Publishing
Electrical/Robotics Technology
Electronic Systems Technology
Fire Science Technology
Heating/Ventilation/Air Conditioning*
Internet of Things
Landscape Design & Management Technology
Medical Assistant*
Medical Coding & Billing Specialist
Medical Office Administrative Assistant
Microcomputer Specialist
Multimedia Technology
Optics & Photonics
Programmer
TV Production Technology

** Programs begin only in September; others available in both September and January.*
*** Online option available.*

ENROLL IN A DEGREE OR CERTIFICATE PROGRAM

WHY?

- You will become eligible to apply for financial aid
- You will be a student with an easy-to-follow curriculum
- Your graduation eligibility will be monitored by the College

HOW:

1. Complete a STCC Application for Admission online at stcc.edu/apply, or in person.
2. Submit all required documentation (high school transcripts or GED or HiSET, college transcripts, SAT scores for some programs)
3. Follow the directions that will be mailed to you in your acceptance packet

Not all degree programs or certificates offer evening/weekend courses. For more information, please call the Admissions Office at (413) 755-3333.

Flex Terms

Complete TWO courses in the time it takes to finish one traditional course! At seven weeks, the terms are half as long as the traditional 14-week semester.

Students enrolled in the shortened terms also have the option of completing a two-course sequence within a single term. For example, they can complete Accounting 1 and Accounting 2 over the course of the two Flex Terms.

Benefits:

Complete coursework by focusing on fewer courses at a time;

Complete a two-course sequence within a single term;

More effectively increase \credit load in a given term.

View class schedules and descriptions at stcc.edu/flexterms

FINANCIAL AID

Why wait until the spring semester to get started at STCC? Students are eligible for financial aid for Fall-1 or Fall-2 starts, just as if you enroll for the traditional fall semester. This gives extra flexibility to those who can't start classes in September, but can in October. Call the Admissions Office at (413) 755-3333 to discuss your options.

ADMISSIONS & ENROLLMENT

Students new to STCC may choose to delay enrollment until the start of one of the Fall Flex Terms. Call the Admissions Office at (413) 755-3333 to discuss your options.

Current or returning STCC students should call the Registrar's Office at (413) 755-4321 to discuss questions or options.

IMPORTANT DATES

Sept. 3	Fall-1 Classes Begin
Sept. 5	Fall-1 Add/Drop Ends
Oct. 9	Last Day to Withdraw from Fall-1 Classes
Oct. 22	Fall-1 Classes End
Oct. 23	Fall-2 Classes Begin
Oct. 25	Fall-2 Add/Drop Ends
Dec. 3	Last Day to Withdraw from Fall-2 Classes
Dec. 13	Fall-2 Classes End

Fall-1 Flex Term (Sept 3 - Oct 22)

- Accounting 1
- Algebra 1
- Anatomy & Physiology 1
- Composition 2
- Computer Basics: Concepts & Applications
- English Composition 1
- General Psychology
- Intro to Criminal Justice
- Intro to Pharmacology
- Intro to Physical Therapy
- Intro to Sociology
- Medical Lab Safety (5 weeks)
- Nutrition
- Prep for the Certified Coding Assisting Exams
- Principles of Marketing
- Review for College Writing
- Survey of U.S. History & Government

Fall-2 Flex Term (Oct 23 - Dec 13)

- Accounting 2
- Algebra 1
- Algebra 2
- Anatomy & Physiology 2
- Basic Research
- Child Growth & Development
- Composition 2
- English Composition 1
- Fundamentals of Oral Communication
- General Psychology
- Intro to Sociology
- Intro to African American History: Colonial-1865
- Lifespan Human Growth & Development
- Nutrition
- Policing
- Principles of Management
- Review for College Writing
- Statistics
- Survey of U.S. Modern History

Manufacturing Degrees, Certificates, and Training Options

As the only technical community college in Massachusetts, STCC is proud to offer a wide variety of engineering and technology programs that directly support advanced manufacturers in our region.

These programs prepare you for in-demand jobs in laser materials processing, automation & control, electro-mechanical systems, fiber optics, precision manufacturing, metrology, aerospace & defense, 3D printing, medical device fabrication, nanotechnology, and many others.

STCC offers the only degree-granting Optics and Photonics technology program in New England.

Degrees & Certificates of Completion

Biomedical Equipment Technology
Biomedical Manufacturing Technology
CAD/CAM
Civil Construction Management
Civil Engineering Technology
CNC Operations
Computer Systems Engineering Technology
Electrical Engineering Technology
Electrical/Robotics Technology
Electronic Systems Engineering Technology
Electronic Systems Technology
Internet of Things
Mechanical Engineering Technology
Optics and Photonics

THE LABS

The Smith & Wesson Technology Applications Center at the STCC Technology Park is host to STCC's Mechanical Engineering Technology (MET) Labs. The MET Labs feature 15 Haas mills and lathes, 2 CNC routers, 2 Mitutoyo Coordinate Measuring Machines (CMM), and 80 lab computers for students. The faculty-to-student ratio is 18:1.

Other labs on campus feature a MakerBot 3D printer and a suite of laser marking/etching/cutting systems.

HIGH SCHOOL DUAL ENROLLMENT

Are you a junior or senior in high school, and interested in a fun hands-on career? Many local employers are struggling to fill high-paying jobs in manufacturing. Get a Smart Start on your career before you graduate high school! See page 8 for more information.

WESTERN MASSACHUSETTS CHAPTER OF THE NATIONAL TOOLING AND MACHINING ASSOCIATION (WMNTMA)

The WMNTMA Learn and Earn Internship Program gives student interns work during traditional semesters and during the summer, putting in 10 to 15 hours or more per week based on their schedules and employers' requirements. Student interns must complete 150 internship hours to receive academic credits, but may choose to complete a non-credit internship. Employers are required to pay interns. Learn more at wmntma.org.

WORKFORCE DEVELOPMENT

STCC'S Workforce Development Center offers a variety of **Advanced Manufacturing training opportunities**, including hands-on workshops where you'll learn to operate and program a 2 Axis Lathe, a 3 Axis CNC Mill, and a 5 Axis CNC Mill. We also offer certifications for Snap-On Tools. Please visit stcc.edu/wdc/advanced-manufacturing for schedules.

TWO - TRAINING AND WORKFORCE OPTIONS FOR EMPLOYERS

STCC's Workforce Development Center partners with **TWO** to deliver custom assembler training for **CRRC MA Corp,** a Springfield manufacturer of train cars. Students who complete assembler training are offered job interviews with CRRC and other local manufacturers.

The experts at TWO can create a custom-designed program, that fits the training needs of your organization. TWO can provide employee assessments, skills training, and professional development that will make a measurable difference in your bottom line.

TWO is certified Workforce Training Fund (WTF) vendor. For a free consultation, contact Tracye Whitfield, Director of Manufacturing & Corporate Training, at (413) 755-4103 or tlwhitfield@stcc.edu.

Registration Information

This catalog is published as a convenient source of information for students.

Information in this catalog, including tuition, fees, and insurance requirements, is subject to change without notice.

REGISTRATION OPTIONS
Now through August 30

ONLINE: stcc.edu

If you have not requested a WebAdvisor PIN, follow the instructions below and receive your PIN within 24-48 hours.

WebAdvisor is an online service for students. Students use WebAdvisor to view grades, class schedules, and financial information; online transactions for students include course registration, schedule changes, bill payment, and address changes.

How to Open a WebAdvisor Account and Request a PIN

1. Go to stcc.edu
2. Choose WebAdvisor from the eTools menu
3. Click on Setup a WebAdvisor Account
4. Complete the online application for a WebAdvisor account
5. Your username and password will be sent to you by email

Note: Make sure that your email account is not blocking outside messages, or that your email box is not full, or that there is not some other reason that our email to you cannot get through.

WALK-IN: Registrar's Office

Building 19, 1st Floor

Monday–Thursday	7:30am - 7:00pm
Friday	7:30am - 5:00pm

PHONE: (413) 755-4321

Have all course information ready when you call.

WEBADVISOR - HELP LINE

If you run into any technical problems on the WebAdvisor system, please visit stcc.edu/webadvisor for assistance. If you need further assistance, please send an email describing the problem to the WebAdvisor Help Line (webadvisor@stcc.edu) – you will receive a response within one business day.

ACADEMIC ADVISING

Academic Advising is available in the Academic Advising and Transfer Center, Building 19, Room 232. Monday-Thursday 7:30am–7:00pm, Friday 7:30am–5:00pm. To schedule an appointment, call (413) 755-4857 or email advisor@stcc.edu.

HOW TO REGISTER ONLINE

1. Go to: **stcc.edu**
2. Choose: **WebAdvisor** from the **eTools** menu
3. Click On: The **Click Here to access WebAdvisor** link
4. Click On: **Log In**
5. Enter your username (in lowercase) and password – click on **Submit**
6. Click On: **Students**
7. Click On: **Register for Sections**
8. Choose: **Express Registration**
9. For each course in which you want to register, enter the following information:
   - **Subject:** Use the drop-down menu in the **Subject** column to choose the course subject (for example, ENG)
   - **Course Number:** Type in the number of the course (for example, 100) in the **Course #** column
   - **Section Number:** Type in the Section information (for example, D01) in the **Section #** column. (Every section includes a letter and two numbers.)
   - **Term:** Use the drop-down menu in the **Term** column to choose either 2019 Fall, 2019 Fall 1, or 2019 Fall 2.
10. After you've entered the information for every course, click Submit.
11. On the next screen, you will see a list of your "preferred sections" based on your course section criteria. **To finalize registration**, use the drop-down **Action** menu to select "RG – Register" (to register for a class) or "RM – Remove from List" (to remove a class from your list of preferred sections). When done, click Submit.
12. The next screen will indicate the status of each course. Successful registrations will be noted with a status of **Registered.** If a class is full, or if you do not meet the prerequisite(s) for a course, this will be noted at the top of this screen.

You can also chat with an advisor – Click on **chatNOW!** at stcc.edu/contact.

HEALTH HOLDS OR CASH HOLDS

If you are a returning student and have outstanding financial obligations to the College, or if you have not satisfied the immunization records requirement for some departments, you will be blocked from registering online. If you see a message indicating that a health record and/or cash hold has been placed on your account, contact the appropriate office. Once the hold has been removed, you will be able to register for classes.

Health Record hold: Health and Wellness Center, Building 19, Room 177, (413) 755-4230

Cash hold: Student Financial Services, Bldg. 19, Room 287, (413) 755-4214

Registration Information

PREREQUISITE REQUIREMENTS

Occasionally students are prevented from registering for certain courses because they have not met the specified prerequisite(s) for the course. (These are listed at the end of each course description.) Prerequisites help to ensure that you are ready for the challenge of the course material and the assignments. Students are responsible for ensuring they have met the prerequisites for registered courses.

If you receive a message indicating that you do not meet the course prerequisite(s), you may wish to choose a different course. Or, please call us if you have already taken the prerequisite course(s) at another college.

CLOSED CLASSES

Register for your classes as soon as possible so you'll minimize the chance of being unable to create the schedule that you need because of full class enrollments. If you encounter a full class, you may wish to check its enrollment at a later date, in case space should become available.

CHANGE OR CANCELLATION OF A COURSE

Classes which do not have 17 or more registered students may be cancelled. If the College cancels a course, all tuition payments and fees pertaining to the cancelled course will be refunded.

The last day for students to make a change in Fall course selections is Monday, September 9, 2019. Flex Term deadlines vary. The College reserves the right to change classes, times, and instructors, and to cancel classes or create new class sections. Every attempt will be made to provide students with the schedule they selected during registration; however, the final schedule may reflect changes required by the College.

WITHDRAWAL

Failure to attend class does not constitute a withdrawal. A withdrawal form must be completed when a student voluntarily withdraws from a course. The final date to withdraw is as follows:

2019 Fall: November 25, 2109
2019 Fall 1: October 9, 2019
2019 Fall 2: December 3, 2019

Individual faculty have the right to withdraw students who fail to comply with their attendance policies. Alternatively, the Registrar of the College may administratively withdraw students for excessive absences if, at midterm of a fall or spring semester, a failing midterm grade is reported and the faculty member also reports that the student has not attended classes since the end of the fifth week of the semester.

AUDITING POLICY

1. Students must apply at the Registrar's Office and declare an intention to audit within the prescribed registration period. All decisions regarding the election of a course for audit or credit must be finalized by the end of the Add/Drop period.
2. Students must pay all established charges for the course.

NEW ENGLAND REGIONAL STUDENT PROGRAM TUITION BREAK

Live in a New England state that's not Massachusetts? Save thousands of dollars when you enroll in an approved major or program.

Call the STCC Admissions Office at (413) 755-3333 with any questions or visit stcc.edu/tuition-break.

Connecticut Residents
The following STCC associate degree programs are approved through the Tuition Break program. All STCC certificate of completion programs are also approved.

Architecture and Building Technology
Automation and Robotics
Automotive Technology
Biomedical Equipment Technology
Biomedical Manufacturing Technology
Building Construction Management
Civil Construction Management
Computer Systems Engineering Technology
Digital Audio Broadcasting
Electronic Engineering Technology
Energy Systems Technology
Engineering and Science Transfer
Interactive Media and Animated Design
Mechanical Engineering Technology Transfer
Optics and Photonics Technology
Respiratory Care
TV Production Technology

Proximity Eligibility
You may also qualify when STCC is closer to your home than the in-state college offering the same program. Additional degree programs may be approved for residents of Granby, Enfield, Somers, Stafford, Suffield, and residents of other towns for whom STCC is geographically closer than Capital or Manchester community colleges (where Asnuntuck does not offer a competing program).

Paying for College

FALL 2019 TUITION AND FEES (IN-STATE DAY, EVENING, WEEKEND, ONLINE)

Tuition, fees, and insurance requirements are subject to change without notice.

No. credits	Tuition	General Education Fee	Capital Improve. Fee	Info. Tech Fee	Student Services Fee	Student Health Insurance	Total with Insurance	Total without Insurance
1	25.00	157.00	31.00	75.00	33.00	N/A	N/A	321.00
2	50.00	314.00	62.00	75.00	33.00	N/A	N/A	534.00
3	75.00	471.00	93.00	75.00	33.00	N/A	N/A	747.00
4	100.00	628.00	124.00	75.00	33.00	N/A	N/A	960.00
5	125.00	785.00	155.00	75.00	33.00	N/A	N/A	1,173.00
6	150.00	942.00	186.00	75.00	33.00	N/A	N/A	1,386.00
7	175.00	1,099.00	217.00	75.00	33.00	N/A	N/A	1,599.00
8	200.00	1,256.00	248.00	75.00	33.00	N/A	N/A	1,812.00
9	225.00	1,413.00	279.00	75.00	33.00	2,390.00	4,415.00	2,025.00
10	250.00	1,570.00	310.00	75.00	33.00	2,390.00	4,628.00	2,238.00
11	275.00	1,727.00	341.00	75.00	33.00	2,390.00	4,841.00	2,451.00
12	300.00	1,884.00	372.00	75.00	33.00	2,390.00	5,054.00	2,664.00
13	325.00	2,041.00	403.00	75.00	33.00	2,390.00	5,267.00	2,877.00
14	350.00	2,198.00	434.00	75.00	33.00	2,390.00	5,480.00	3,090.00
15	375.00	2,355.00	465.00	75.00	33.00	2,390.00	5,693.00	3,303.00
16	400.00	2,512.00	496.00	75.00	33.00	2,390.00	5,906.00	3,516.00
17	425.00	2,669.00	527.00	75.00	33.00	2,390.00	6,119.00	3,729.00
18	450.00	2,826.00	558.00	75.00	33.00	2,390.00	6,332.00	3,942.00
19	475.00	2,983.00	589.00	75.00	33.00	2,390.00	6,545.00	4,155.00
20	500.00	3,140.00	620.00	75.00	33.00	2,390.00	6,758.00	4,368.00

- Student Health Insurance is required for all on-campus students enrolled in 9 or more credits and in a certificate, diploma or degree-granting program.
- All Allied Health, Nursing, SMC, HIT Internship, and PSY-260 students will be billed an additional liability insurance fee.
- Allied Health and Nursing Programs fee – $600
- Health Sciences course fee (HSC-110, HSC-150, SMC-125, SMC-151, SMC-161, and SMC-175) – $225
- PSY-260 Field Practicum course fee – $200

PAYMENT

Student Financial Services uses a paperless billing system. **All students are expected to view their bill online via the STCCNet Portal.** An email will be sent to student e-mail accounts on a regular basis as a reminder to view their bill. Payment for the Fall 2019 Semester is due by July 22, 2019. Payment for students registering for courses after July 22, 2019 is due at the time of registration.

Students must make an "STCC Acceptable Payment Arrangement" by the billing due date or their schedule is subject to deletion at any time. Students who register after the billing due date must make an "STCC Acceptable Payment Arrangement" at the time of registration or their schedule is subject to deletion at any time.

For more information, visit stcc.edu/pay-for-college.

Important Payment Information

Students paying for tuition, fees, and related charges by credit/debit card are assessed a non-refundable 2.4% service fee. In order to better serve our students, STCC accepts Visa, MasterCard, Discover, American Express, and e-check payments. Please note that the service fee is subject to change at any time. Students may pay with cash, check, money order, and e-check without any service fee.

MONTHLY PAYMENT PLAN

Assisting our students in meeting financial obligations is one of our top priorities. STCC provides a monthly payment plan through Nelnet Business Solutions. Students can enroll in this interest-free plan by logging into their STCCNet account and clicking on "Payment Plan". All payment plan down payments are taken immediately, and remaining monthly payments will be automatically withdrawn from the student's account. There is a $35.00 non-refundable enrollment fee that is charged each semester to enroll in the plan. If a credit/debit card is used, a 2.5% non-refundable service fee will be assessed in addition to the enrollment fee. Students must have a credit card or bank account to enroll in the plan.

REFUND POLICY

- Withdrawal during the first week of classes: **100%**
- Withdrawal during the second week of classes: **75%** (Tuition, Capital Improvement Fee, and General Education Fee only)
- Withdrawal during the third week of classes: **50%** (Tuition, Capital Improvement Fee, and General Education Fee only)
- Withdrawal after the third week of classes: **NO REFUNDS**

Paying for College

FINANCIAL AID

Financial Aid is available. Please complete the 2019-2020 FAFSA at www.fafsa.ed.gov. For assistance with filing your FAFSA, please contact us to schedule an appointment.

Student Financial Services • Building 19, Room 287
(413) 755-4214 or sfs@stcc.edu

Monday–Thursday	7:30am - 7:00pm
Friday	7:30am - 5:00pm

stcc.edu/pay-for-college/financial-aid/

STCC's Federal School Code is 005549

We encourage you to complete the financial aid process as soon as possible so you can be awarded prior to the start of the Spring semester.

To be eligible you must:

- Have a high school diploma or GED
- Be enrolled and accepted into a degree or eligible certificate program
- Be a U.S citizen or eligible non-citizen
- Be in good academic standing making satisfactory progress toward your degree
- Certify that you are not in default on a federal student loan or owe money on a federal grant
- Register with Selective Service, if required

Student Financial Services evaluates the cost of attending STCC (tuition, fees, books, supplies, transportation, and other general living expenses). Aid is determined by your EFC (Expected Family Contribution) which is calculated based on the FAFSA, as well as the availability of funds at the college. Some students may only be eligible for loans.

Notification

If you are eligible for financial aid you will be directed to the STCCNet Portal to view your Financial Aid Award Letter indicating the type and amount of financial aid offered. Awards are based on full-time enrollment (12 or more credits). If you are enrolled for fewer than 12 credits, your award(s) will be adjusted when your enrollment status is certified by the Registrar's Office (after the end of add/drop). Be sure to check your STCC email account for regular updates from Student Financial Services as some of our communications will be sent to you exclusively through this method (including Bookstore Voucher notifications).

Financial Aid Withdrawal Policy

If you withdraw from the college or unofficially stop attending your classes, you **may not** be eligible for all of the aid awarded. Federal law specifies that the school must determine how much aid you earned up to the time you stopped attending classes. If you received more aid than you earned, the excess funds must be returned and may result in an outstanding tuition bill. While attendance is not mandatory, non-completion of courses may impact any financial aid received.

TUITION WAIVER

Students may be eligible for a waiver of tuition based on their status as a veteran, senior citizen, or an employee of the Commonwealth of Massachusetts. Veterans should contact the Veterans' Office at (413) 755-5343 to inquire about their eligibility. Employees of the Commonwealth should contact their Human Resources Office and bring applicable paperwork to Student Financial Services.

- Students must provide all required documentation.
- All fees are the responsibility of the student.
- Tuition waiver for veterans applies only to credit courses.

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TUITION REMISSION

The following criteria apply to students who are eligible for a tuition remission for Fall 2019 classes based on their status as an employee of the Commonwealth of Massachusetts.

50% tuition remission:

- Students must provide all documentation to Student Financial Services.
- The remaining 50% of tuition and all fees are the responsibility of the student.

100% tuition remission:

- Students must provide all documentation to Student Financial Services.
- All fees are the responsibility of the student.

For further information or clarification, contact your Human Resources Office.

STUDENT HEALTH INSURANCE

The Commonwealth of Massachusetts requires all students enrolled in at least nine credits per semester to have health insurance. Therefore, all students enrolled in at least 9 credits for the Fall Semester will be charged $1,879 for the Massachusetts Community College Student Health Insurance Plan. If a student has comparable insurance coverage, they can waive the $1,879 charge by logging into STCCNet Portal, clicking on "Health Insurance Waiver," creating an account with Gallagher Student and completing the waiver form. **The deadline to waive the insurance charge is the same as your billing due date (July 22, 2019) or if after that date, at the time of registration.**

College Services

ADULT BASIC EDUCATION/HiSET SERVICES

STCC offers free classes for adults from basic literacy to High School Equivalency Test (HiSET) preparation (previously known as the GED test) and English for Speakers of Other Languages (ESOL). These classes are held on and off campus during day and evening hours. The classes focus on preparing students for careers in addition to entering community college and vocational certificate programs.

The Springfield Adult Learning Center (SALC) at STCC is a unique partnership among Hampden County organizations including Holyoke Community College (HCC), Springfield Technical Community College (STCC), and the Springfield Housing Authority (SHA). The services are funded through a generous grant by the Department of Elementary and Secondary Education (DESE).

The Springfield Adult Learning Center provides a range of classes and services including:

- Basic literacy
- Preparation for the High School Equivalency Test (HiSET)
- English for Speakers of Other Languages (ESOL)
- Computer literacy classes
- Career exploration
- Workforce readiness skills

Registering for Classes

All applications for adult basic education including HiSET prep begin with a visit to the STCC Adult Education Center located in Building 27. The Center is a centralized walk-in information, support, and referral resource for use by members of the community who would like to obtain a High School Equivalency diploma, improve their English speaking and listening skills, or further their education. The Center is open Monday-Friday 8:00am–4:00pm.

All applicants for free ESOL classes start with a visit to the Bilingual Services office in Building 19, Room 268. Staff will provide and assist with the application process. The Bilingual Services office is open Monday-Friday 8:00am–4:30pm.

For more information on services contact the Adult Education Center at (413) 755-4300 or visit stcc.edu/adulteducationcenter.

THE CENTER FOR ACCESS SERVICES (CAS)

The Center for Access Services (CAS) provides extensive non-academic support to help students in need overcome barriers that may be impacting their ability to stay in school. CAS works closely with on-campus services and community based organizations to assist students in applying for federal and state financial resources, housing assistance, food assistance, and more. CAS is dedicated to enhancing college affordability and promoting self-sufficiency for every STCC student. Building 17, Room 118, Monday–Friday, 8am-4pm, (413) 755-5761.

CHILD DAYCARE CENTER

Located in Building 14, Armory Square Child Care Inc. is a private, non-profit child day care serving the children of STCC students, faculty, staff, and the public. Licensed to accommodate up to 40 children ages two-years-nine months to five-years, the center offers full- and part-time programs, year round. Scholarships are available for the children of STCC students. Vouchers from the New England Farm Workers Council are accepted. The center is accredited by the National Association of Education for the Young Child. For detailed information, contact the Armory Square Child Care at (413) 737-3455 or childcare@stcc.edu.

COMPUTER USAGE/PRINTING ON CAMPUS

Students need to log-in to computers using their individual user name and password. This username and password is the same as your STCCNet username and password. If you're a new student, this login information will be mailed to you. If you are a returning student, you will need to log into STCCNet and may be prompted to reset your password. Once the password is reset, the computer login information and STCCNet login information will be the same. If you do not know your username and password, email helpdesk@stcc.edu using your STCC email account or call (413) 755-4016.

When printing on campus, students will log into a computer using their username and password. You will select one of the "Follow Me" printers listed in printer options. The prints will be released into a secure print queue and can be printed from any student print station on campus. Access your print jobs by swiping your RamCard or by keying in your username and password. Once complete, click "log out" on the release station.

College Services

DISABILITY SERVICES

Any full or part-time day, evening, or online student with a documented disability is eligible for services from the Office of Disability Services (ODS). The process for registering with ODS as well as documentation guidelines and verification forms are available at: stcc.edu/resources/academic-support/ods.

Documentation can be dropped-off or mailed to the Office of Disability Services and should be done prior to requesting services. Students will meet with an accommodations specialist PRIOR to the start of each semester in which they plan to enroll to review submitted documentation and formulate an accommodation plan. Contact the office at (413) 755-4785 to schedule an appointment. The offices are located in Building 19, Room 141.

ENGLISH LANGUAGE LEARNER (ELL) SERVICES

The English Language Learner (ELL) office at STCC serves students for whom English is a second language. Staff provides individual assessments and assists prospective and current students in enrolling in the appropriate STCC classes to improve their language skills. The ELL Services staff guides students during these initial steps prior to enrollment:

- **Assessment:** All applicants work with the ELL Services staff to schedule an English assessment that gauges applicant's current English skills and educational goals.
- **Class Enrollment:** ELL Services staff reviews assessment scores and assists student in applying to the college or enrolling in credit or non-credit classes.
- **Financial Information:** Students are provided with general information and assistance with filling out the FAFSA or other financial aid
- **Support Service Information:** ELL Services staff provide students with information about STCC and referrals to other community educational and support services.

Location: Building 19, Room 268
Phone: (413) 755-4063
Hours: Monday-Friday, 8:30am-4:30pm

FITNESS CENTER

The Fitness Center, located in Building 2, is open to all current STCC students and employees. Hours are Monday-Friday, 6am-5pm. A valid RamCard is required.

FOOD SERVICE

For information on campus food services go to stcc.edu/campus-life/food

LIBRARY

The STCC Library is located on the second floor of Building 19. Library hours are Monday–Thursday, 7:30am–7:00pm; Friday 7:30am–5:00pm; and Saturday, 10:00am–2:00pm when classes are in session during the fall or spring semesters. During finals week, library hours are extended. During semester breaks, the hours are Monday–Friday 8:00am–4:00pm. Summer hours vary.

Current Ram Cards are required for most library services. For more information call (413) 755-4532 or visit the library's website at http://libguides.stcc.edu/LibraryHome.

Follow us on Twitter @stcclibrary, and on Facebook at facebook.com/stcclibrary.

RAMCARD

The RamCard is your official identification while at STCC and must be carried by students at all times. The RamCard is much more than an ID. It is also your library card and provides access to the STCC Fitness Center and many other services on campus. In addition, the RamCard is used to pay for books at the STCC Bookstore if you are awarded a book voucher. The RamCard is also integrated with STCC's print management program. Students can utilize their print credits by swiping their RamCard at any of the printing stations on campus.

RamCards can be obtained in Student Financial Services in Building 19, Room 287. A state issued photo ID such as a driver's license or passport must be presented at the time your RamCard is issued. Students must be registered in order to obtain a RamCard. Please note that it takes approximately one hour for the registration system to relay student information to the RamCard database, so students will become eligible to have their RamCard picture taken approximately one hour after they register.

Student Financial Services is open Monday-Thursday 7:30am–7:00pm and Friday 7:30am–5:00pm.

College Services

TESTING SERVICES

The Testing and Assessment Center is located in Building 19, Room 238. Tests available to the general public include:

- **HiSET**
- **CLEP** (College-Level Examination Program)

Tests restricted to STCC students include:

- **Placement Tests -** for incoming students, to gather information needed to advise and schedule appropriate courses for each student. Tests include: Write Placer • Math • Reading • Typing/Keyboarding
- **Challenge Exams -** for STCC students currently registered in degree or certificate programs only. Credits toward graduation can be earned on a pass/fail basis.

For more information concerning testing services, visit stcc.edu/testing or call (413) 755-4709.

TUTORING SERVICES

Tutoring services are available in most subjects and tutor availability, Monday–Thursday from 8:00am–6:30pm, and Fridays from 9:00am–3:30pm, by appointment and on a walk-in basis in the Student Success Center, located in Building 19, 2nd floor next to the Library. STCC now offers 24/7 online tutoring through NetTutor.

To access go to stcc-sp.link-systems.com and log-in with your WebAdvisor username and password.

To watch a how-to use NetTutor video go to: www.youtube.com/watch?v=Vq6J84Sv2ro

For more information, please call (413) 755-4715.

VETERANS SERVICES

The STCC Veteran Affairs Office is dedicated to assisting veterans, service members, and their dependents with federal and state military educational benefits, referrals to organizations for assistance with employment, mental health, and housing. STCC VA services provide the tools and resources needed to ensure student success. The Office of STCC Veterans Affairs is located in Building 19, Room 135. Office hours are 8:00 am– 4:00 pm, Monday–Friday. The office phone number is (413) 755-5343 and email is agmurchison@stcc.edu. For further information pertaining to veterans benefits please visit www.gibill.va.gov.

TEXTBOOKS

Textbooks fare available in the STCC Bookstore, located on the first floor of Building 19.

Fall Bookstore hours

Week of August 19–23	
Monday - Thursday	8:00am - 7:00pm
Friday	8:00am - 4:00pm
Week of August 26–30	
Monday - Thursday	8:00am - 7:00pm
Friday	8:00am -4:00pm
Week of September 2–7	
Monday	Closed: Labor Day
Tuesday - Thursday	8:00am - 7:00pm
Friday	8:00am - 4:00pm
Saturday	9:00am - 3:00pm
Monday, September 9: Normal business hours resume	
Monday – Friday	8:00am – 4:00pm

Refund Policy

(a) Textbooks in resalable condition may be refunded with receipt within seven (7) calendar days from the start of classes or within two (2) days of purchase thereafter, including summer term.

(b) Textbooks purchased during the last week of classes or during exams fall under last date for returns and/or the 2 day returns policy or may be sold back under the buyback policy also must have a receipt.

(c) Computer software may be returned if it is unopened and still shrink-wrapped with a receipt.

(d) Electronic devices may not be returned.

(e) In addition, upon proof of drop/add, the Bookstore will accept textbook returns from students who have dropped a course up to thirty (30) days from the start of classes or until the end of the official drop/add period, whichever comes first with a receipt and in text/items in resalable condition.

PHI THETA KAPPA HONOR SOCIETY

All students are eligible to join the Phi Theta Kappa International Honor Society of the Two-Year College if they complete 18 graduation credits with a Quality Point Average of at least 3.5. Students who meet these requirements will be contacted by the President of Alpha Psi Sigma, STCC's Phi Theta Kappa Chapter.

College Services

PARKING AND TRANSPORTATION

The STCC Parking Office is located in Building 19, Room 269. Students may contact the Parking Office at parking@stcc.edu or (413) 755-4238.

For detailed information about parking and transportation services at STCC, please visit stcc.edu/parking.

General Information

Students may apply for EITHER a bus pass or a parking decal. A student may not receive both unless they register with the Parking Office as a carpool. Students who are not carpooling OR senior citizens must apply online for either a parking decal or bus pass by visiting stcc.edu/parking. All decals and bus passes will be sent to students via postal mail.

Students will only be allowed to complete the parking decal or bus pass application process if their student financial account is up-to-date.

Parking decals are valid for the entire academic year (September through May). Students may not switch lots or reapply in the spring for a different parking decal. Bus Passes are only valid for 1 semester. Students must reapply for reactivation of a bus pass each semester.

Student Parking Lots and Parking Decals

Day Classes: Monday through Friday students must park in an assigned exterior student parking lot from 7:00 a.m. until 3:00 p.m. All students must have a parking decal on their vehicle for their assigned lot. Students without a decal displayed on their vehicle may be denied entrance.

To apply for a parking decal, please visit the STCC Parking website at stcc.edu/parking.

Exterior student parking lots are located as follows:

Lot 1: Located at the corner of Federal and Pearl Streets across from campus.

Lot 2: Located on Pearl St. across from campus.

Lot 3: Located at the corner of Walnut and Union Streets.

Lot 5: Located on Taylor Street.

A map showing all parking lot locations can be found at stcc.edu/parking.

Evening Classes: Beginning at 3:00 p.m. students may park on campus without a decal. If campus parking is full, Lot 2 on Pearl St. is open for all vehicles until 10:00 p.m. No decal is needed for any evening parking in Lot 2.

Weekends: Students may park on campus on weekends without a permit.

Shuttle Service: STCC provides shuttle service Monday through Friday during the regular semester only. Lots 3 and 5 from are serviced between 7:15 a.m. until 5:00 PM each day. There is evening shuttle service to Lot 2 from 5:00 p.m. until 10:00 p.m Monday through Thursday, and until 4:00 p.m. on Fridays. There is no shuttle service to Lot 1 at any time. All STCC shuttles pick up and drop off at one location on campus. This shuttle stop is in front of Building 16 / Garvey Hall at the front of campus.

If Your Car Gets Locked Inside a Lot: Any student whose vehicle becomes locked in any student parking lot in the evenings may board the evening shuttle bus and request to be taken to their lot. The shuttle driver will allow you access to the lot to remove your vehicle.

Temporary Meter Parking: There are several metered parking spaces located at the front of campus. These are intended for short-term parking only and not for students on campus for longer than one class. Parking tickets are issued for expired meters or for students found to park for extended periods of time exceeding one class.

Tow Policy: Vehicles that have received 3 or more parking tickets for any violations in one semester, whether they are paid or not, are subject to being towed at the owner's expense. This policy is strictly enforced.

Carpooling to STCC

To obtain a carpool decal, 2 or more passengers are required. Car poolers are assigned to park in Lot 1. They are also eligible for a free PVTA bus pass and a $25.00 incentive applied to their student account. All students in a carpool group must come to the Parking Office in Building 19 as a group and must bring their class schedules with them and their RamCard in order to receive a Carpool Parking Decal. These decals are NOT issued online.

Free PVTA Bus Passes

Students may apply online at stcc.edu/parking for one free PVTA bus pass. Students are only given one free bus pass per semester. Any bus pass replacement will cost the student $45.00.

PVTA bus passes are valid from 7:00am–10:00pm as long as the student remains enrolled in courses. Please visit pvta.com to view PVTA schedules. STCC does not control or otherwise manage the PVTA schedules.

Academic Information

PLACEMENT ASSESSMENTS

All incoming students matriculating in degree, certificate, or certificate of completion programs will complete the entrance assessment before registering for classes. If the results reveal a need for a stronger foundation in vital academic skills, students will be directed to appropriate developmental courses and support services. Students whose reviews indicate a need to further develop skills in reading, writing, mathematics, or keyboard skills must complete appropriate developmental courses designated to prepare students to succeed in college-level programs. Completion of developmental coursework may extend the time required to complete a degree or certificate program.

Exemptions may apply to:

- Students with a 2.7 cumulative high school GPA who have graduated from high school within the past ten years to place directly into a college-level, credit-bearing English course
- Students with a 2.7 cumulative high school GPA who have graduated from high school within the past three years to place directly into a college-level, credit-bearing mathematics course.
- Students transferring equivalent college-level coursework into STCC from an accredited post-secondary institution; course transfer requires a grade of "C-" or better.
- Students who wish to transfer Accuplacer scores from another institution (scores must be two years old or less) should have them submitted to the Testing and Assessment Center in a sealed envelope.
- Students with mathematics, English writing, reading or keyboard skills examination scores on STCC Entrance Assessments which are two years old or less.
- Students who have completed coursework in English, reading, and mathematics at STCC, with a grade level of C- or better.

Students who feel that their placement assessment results do not accurately reflect their skill level in a particular area (reading writing, math and/or keyboarding) may request a retest. Students must wait at least five (5) calendar days before retesting, to allow ample time for students to prepare for the retest. Only one retest per subject area will be allowed. The College will consider a student's highest placement result (whether the original result or the retest result) when determining the student's placement level.

For more information, call the Testing and Assessment Center office at (413) 755-4657.

REPEATING COURSES

A course may be attempted a maximum of three times unless department guidelines stipulate a lesser number. All grades will appear on the transcript, but only the last grade will be used in calculating the quality point average (QPA).

JANUARY 2020 GRADUATION

The deadline for submitting the Candidate for Graduation form for degree or certificate of completion programs for January 2020 graduation is December 5, 2019. Forms are available in the Registrar's Office and on STCCNet under Academics: Registrar's Office.

POLICY ON GRADE OF INCOMPLETE

The grade of incomplete (I) indicates that a major requirement of the course has not been completed. The following policy shall apply to incompletes:

- An "I" (incomplete) is a temporary grade assigned to students who fail to complete the requirements of a course. The grade of "I" is to be assigned only to the few students who have valid, approved reasons for their inability to complete the course work. An "I" is not to be assigned to a potential failure.
- An "I" (incomplete) will change to "F" (failure) four weeks after the beginning of the next regular semester.
- Fall semester students who receive the grade of "I" will have until February 18, 2020 to complete course requirements and, based on those results, petition a grade change from the original instructor. It is the student's responsibility to make arrangements with the original instructor to complete course requirements.

DEAN'S LIST

To recognize excellence in academic performance, a Dean's List is published each fall and spring semester and is noted on the official transcript. Matriculated students carrying 12 or more college-level credits and a 3.3 GPA within a semester will be awarded Dean's List status provided that no grade is less than a "C" (2.0) or an incomplete grade during that semester. In addition, Dean's List status will be awarded to matriculated students who have earned a combined total of 12 or more college-level credits with a 3.3 GPA over the previous two consecutive semesters provided that no grade is less than a "C" (2.0) or an incomplete grade in the two semesters being evaluated. Students awarded Dean's List based on the evaluation of two consecutive semesters will be awarded Dean's List only in one of the two consecutive semesters. Summer and Winter semester coursework is not used in the calculation of Dean's List.

Courses Offered After 4pm and on Weekends

MONDAY EVENING

ABT-220	E51	Sustainability and the Built Environment	
ACC-102	E51	Accounting 2	
CMP-106	E51	Computer Basics: Concepts & Applications	
CRJ-215	E51	Introduction to Corrections	
CSE-110	E51	Intro to Cmptr Systems (Comptia A+)	
DRG-091	E51	Reading Level 1	
EET-130	E51	Fund of Motor Control	
ENG-101	E51	English Composition 1	
ESL-096	E51	Advanced ESL Writing	
EST-100	E51	Theory of Controls	
EST-101	E51	Combustion Control Circuits	
FST-110	E90	Bldg Construction	
MAT-078	E52	Pre-Algebra	
MAT-115	E52	Statistics	
MAT-124	E52	Technical Math 1	
MAT-125	E51	Technical Math 2	
MET-101	E51	Introduction to Engineering Technology	
MET-120	E51	Metrology & Geometrics	
MET-132	E51	Cam Applications 1	
MET-227	E51	Quality Concepts	
MET-267	E51	Advanced Engineering Applications	
PHL-101	E51	Introduction to Philosophy	
PSY-101	E51	General Psychology	
PSY-210	E51	Lifespan Human Growth and Development	
SOC-101	E51	Introduction to Sociology	
SPN-101	E51	Elementary Spanish 1	

MONDAY/THURSDAY EVENING

MAT-131	E51	Calculus 1	

MONDAY/TUESDAY/WEDNESDAY EVENING

SMC-161	E30	Sterile Processing Technician	

MONDAY/WEDNESDAY EVENING

ABT-150	E51	Arch Design 1: Design Process 2D	
BIO-101	E51	Principles of Biology 1	
BIO-104	E51	Human Biology 1	
BIO-231	E52	Anatomy & Physiology 1	
BIO-231	E53	Anatomy & Physiology 1	
BIO-232	E51	Anatomy & Physiology 2	
BIO-235	E50	Microbiology	
CHM-101	E51	Survey of Chemistry 1	
CHM-111	E51	General Chemistry 1	
ECE-110	E51	Child/Growth and Development	7-week Session 2

MONDAY/WEDNESDAY/THURSDAY EVENING

SMC-125	E30	EMT Basic	

SATURDAY MORNING

BIO-115	E65	Nutrition	
CMP-106	E65	Computer Basics: Concepts & Applications	
PSY-101	E65	General Psychology	
SOC-101	E65	Introduction to Sociology	
SOC-102	E65	Intro to Social Work	

TUESDAY EVENING

ABT-225	E51	Introduction to Bldg Info Modeling	
ACC-260	E51	Managerial Accounting	
BIO-231L	E80	Lab: Anatomy & Physiology 1	w/ online lecture
CET-115	E51	Construction Materials and Methods	
CHM-101L	E86	Lab: Survey of Chemistry 1	w/ online lecture
CRJ-210	E52	Criminal Investigation	
DWT-099	E52	Review for College Writing	
ECE-110	E52	Child/Growth and Development	
ECE-220	E52	Early Childhood Practicum 1	
EET-260	E51	Microprocessor Applications	
ENG-101	E52	English Composition 1	7 week Session 1
ENG-101	E52	English Composition 1	
ENG-102	E52	English Composition 2	7-week Session 2
ENG-102	E52	English Composition 2	
ENG-104	E52	Technical Report Writing	
ENG-105	E52	Fundamentals of Oral Communication	
ESL-088	E52	Intermediate ESL Reading	
ESL-098	E52	Advanced ESL Reading	
EST-103	E51	Energy Systems Lab 2	
EST-200	E51	Principles of Refrigeration	
EST-202	E51	Power Plant Operations	
FIN-101	E51	Introduction to Finance	
FST-101	E90	Fire Protection & Fire Prevention	
FYE-101	E52	First Year Experience	7-week Session 2
FYE-101	E52	First Year Experience	
HIS-110	E52	Survey of U.S. History and Government	
HIT-110	E10	Health Office Basics	
MAT-078	E54	Pre-Algebra	
MAT-087	E53	Algebra 1	
MAT-097	E52	Algebra 2	
MET-150	E51	Fundamentals of CNC	
MKT-101	E51	Principles of Marketing	
PSY-200	E52	Child Psychology	
SOC-101	E52	Introduction to Sociology	

THURSDAY EVENING

ABT-125	E51	Architectural CAD	
BIO-231L	E86	Lab: Anatomy & Physiology 1	w/online lecture
CMP-106	E54	Computer Basics: Concepts & Applications	
CRJ-101	E54	Introduction to Criminal Justice	
CSE-160	E51	Introduction to Programming Using Python	
DRG-092	E54	Reading Level 2	
DWT-099	E54	Review for College Writing	
ECE-101	E54	Introduction to Early Childhood	
EET-120	E51	Fluid Power Technology	
EET-250	E51	Control System Theory	
ENG-101	E54	English Composition 1	
ENG-102	E54	English Composition 2	
ENG-245	E54	Non-Western Literary Voices	
ESL-084	E54	Intermediate ESL Grammar	
EST-206	E51	Microprocessor Controls	
FST-131	E90	Advanced Protection Systems	
FST-220	E51	Intro to Fire Investigation	
HIS-125	E54	The Holocaust	
HIT-125	E10	Health Information Management for Health Information Technology Students	
MAT-115	E51	Statistics	

Courses Offered After 4pm and on Weekends

MET-160	E51	Engineering Graphics With Solid Works	
MET-224	E51	Statics and Strength of Materials	
PSY-101	E54	General Psychology	
PSY-210	E54	Lifespan Human Growth and Development	
PSY-230	E54	Principles of Normal/Abnormal Behavior	
SPN-121	E54	Conversational Spanish-Medical Personnel	

TUESDAY/THURSDAY EVENING

ART-102	E51	Basic Drawing	
BIO-101	E52	Principles of Biology 1	
BIO-232	E50	Anatomy & Physiology 2	
BIO-235	E52	Microbiology	
CHM-112	E51	General Chemistry 2	
HSC-110	E20	Comm and Professionalism in Healthcare	
PHY-221	E51	Physics 1	
PHY-232	E55	Classical Physics 2	

WEDNESDAY EVENING

ARB-101	E53	Elementary Arabic 1	
BIO-114	E51	Biochemistry	
BIO-232L	E86	Lab: Anatomy & Physiology 2	w/online lecture
CRJ-200	E53	Criminal Law 1	
CSO-155	E51	Cisco Routing and Switching Essentials	
ECE-221	E53	Early Childhood Practicum 2	
ECN-101	E53	Intro to Macroeconomics	
EET-110	E51	Basic Electricity 1	
ENG-101	E53	English Composition 1	
ESL-086	E53	Intermediate ESL Writing	
ESL-094	E53	Advanced ESL Grammar	
EST-102	E51	Energy Systems Lab 1	
FST-230	E90	Hazardous Materials	
FYE-101	E53	First Year Experience	
GAT-160	E51	Introduction to Web Design	
MAT-078	E53	Pre-Algebra	
MAT-087	E52	Algebra 1	
MET-150	E52	Fundamentals of CNC	
MET-150L	E52	Lab: Fundamentals of CNC	
MET-161	E51	Solid Modeling for Mechanical Design 1	
MGT-101	E51	Principles of Management	
PHL-120	E53	Critical Thinking	
PHY-116L	E80	Lab: Physics of Green Energy	w/online lecture
PSY-101	E50	General Psychology	
SOC-101	E53	Introduction to Sociology	

Online Courses

ARE ONLINE COURSES FOR YOU?

Online classes might be a good option for you if you possess the majority of these characteristics:

- Have access to a reliable computer and the internet.
- Know how to use the computer (send/receive email and use basic word processing functions.
- Are motivated and self-disciplined.
- Are comfortable interacting with classmates in an online environment (email and online discussion).
- Can commit approximately 8–10 hours a week to this course including on/off line work.
- Can check email and access the course at least twice a week to complete assignments.

HOW ONLINE COURSES WORK

- STCC's online classes are delivered over the internet. Blackboard Learn, the course management system, is used to facilitate course materials.
- You may email the professor with questions
- It is recommended that you take the STCC math placement exam before registering for the math courses. Please see page 8.

Note: You must register for the course with the Registrar's Office (or on WebAdvisor) prior to entering the course site.

TECHNICAL REQUIREMENTS

If you are enrolled in an online course at STCC, you will need to have a computer with a reliable Internet access to log into Blackboard Learn. We strongly recommend against using smartphones and tablets. Blackboard Learn is accessible from any computer connected to the internet – PC or Mac. We strongly recommend a Web browser such as Firefox (preferred) or Google Chrome. If you don't have either one of these browsers, you can download them at no charge from the web. The following are the only supported browsers:

Firefox 48+	Chrome 49+
Edge 20+	Safari 9+ (Mac OS only)

For more information about the system requirements, please visit stcc.edu/online or email online@stcc.edu.

IMPORTANT DATES

Orientation Sessions for Online Courses are optional, but highly recommended if you are not familiar with online learning or Blackboard.

Only one session is necessary and registration is required. To register, go to stcc.edu/explore/online-learning/blackboard-student-orientations

In-Person Orientation

Monday, August 26th / 10:00AM / Bldg 19 Room 213

Wednesday, August 28th / 1:00PM / Bldg 19 Room 213

Wednesday, August 28th / 6:00PM / Bldg 19 Room 213

Saturday, Sept 7th / 10:00AM / Bldg 19 Room 213

Monday, September 9th / 1:00PM / Bldg 19 Room 213

Online Orientation

Open Enrollment 8/19/19 thru 8/29/19

Fall semester begins on **Monday, September 3**.
You must login to Blackboard no later than **Saturday, September 7** or you may be dropped from the course. Last day to withdraw from an online course is **:**

Fall 1: Wednesday, October 9
Fall: Monday, November 25
Fall 2: Tuesday, December 3

Individual help is available in the Online Learning Office located in Garvey Hall (Bldg 16), Room 329, Monday–Friday, 10:00am–3:00pm.

To access your courses, visit Blackboard, the college's learning management system, at stcc.blackboard.com. **Login using your WebAdvisor username and your student ID# as your password (with no leading zeros).**

Online Courses

FREQUENTLY ASKED QUESTIONS

Do I have to be logged-on at a certain time?
No, our online courses are conducted "asynchronously." You can access our classes whenever it is convenient for you. You choose when, where and how often you visit your class during each week. Some faculty will be hosting online discussion sessions each week at a specified time. You are encouraged to attend these sessions and participate in the class discussion.

Do I need to purchase a textbook?
Most online courses require a textbook. Some require an access code. Textbooks and access codes can be purchased through the STCC bookstore.

Do I need to purchase any software?
As a general rule our courses are designed to run with most browsers. Some courses require the use of word processing or spreadsheet software for submission of assignments.

Will this course satisfy requirements the same way that an on-site class will?
Yes, the material is presented differently but the online courses cover the same content as the on-site classes. The credits received are the same as the on-campus course.

Is it appropriate to exchange ideas with other students?
Yes, we highly recommend that our students work together. This will enrich your online classroom experience and give you an opportunity to meet your classmates.

Can I contact my professor?
Yes, you can contact your professor directly by email or through the discussion meeting. The majority of our faculty respond to their email within 48 hours; many faculty respond within 12-24 hours.

Are the College services/resources available to me?
Yes, as an STCC College student, you are entitled to make use of our resources and student services. Some of these services and resources can be utilized only if you are located in the STCC geographic area.

The following courses are offered online. To enroll in any of these courses, you must have access to the internet and an email address. The email address of the instructor is listed for each course. Course descriptions begin on page 52.

ACCOUNTING

ACC-101	**ACCOUNTING 1**	
E80	APGervais@stcc.edu	
E81	APGervais@stcc.edu	7 week Session 1
ACC-102	**ACCOUNTING 2**	
E80	APGervais@stcc.edu	
E81	APGervais@stcc.edu	7 week Session 2

ARTS

ART-120	**ART HISTORY: PREHISTORIC TO GOTHIC**	
E80	FMRiddle@stcc.edu	

BIOLOGICAL SCIENCE

BIO-101	**PRINCIPLES OF BIOLOGY 1**	
D80	bhpoe@stcc.edu	
E80	MNash@stcc.edu	
BIO-101L	**LAB: PRINCIPLES OF BIOLOGY 1**	
D80	bhpoe@stcc.edu	
E80	MNash@stcc.edu	
BIO-106	**PRINCIPLES OF INFECTIOUS DISEASE**	
E80	KNHaller@stcc.edu	
BIO-109	**FORENSIC BIOLOGY**	
E80	MStrzempko@stcc.edu	
BIO-114	**BIOCHEMISTRY**	
D80	LRapp@stcc.edu	
BIO-115	**NUTRITION**	
E82	LRapp@stcc.edu	
E81	MNash@stcc.edu	7 week Session 1
E80	LRapp@stcc.edu	7 week Session 2
BIO-141	**FUNDAMENTALS OF ENVIRONMENTAL BIOLOGY**	
E82	SLTrueman@stcc.edu	
BIO-141L	**LAB: FUNDAMENTALS OF ENVIRONMENTAL BIO**	
E82	SLTrueman@stcc.edu	
BIO-231	**ANATOMY & PHYSIOLOGY 1**	
D80	bhpoe@stcc.edu	
D81	bhpoe@stcc.edu	
E80	VLNavaroli@stcc.edu	w/ Tuesday evening onsite lab
E86	VLNavaroli@stcc.edu	w/ Tuesday evening onsite lab
BIO-232	**ANATOMY & PHYSIOLOGY 2**	
D80	bhpoe@stcc.edu	
D81	bhpoe@stcc.edu	
E86	KJEttienne-Modeste@stcc.edu	w/ Wed. evening onsite lab

Online Courses

BUSINESS ADMINISTRATION

BUS-105 **INTRODUCTION TO PERSONAL FINANCE**
D80 ARondinelli@stcc.edu

FIN-101 **INTRODUCTION TO FINANCE**
D81 rbelemjian@stcc.edu

LAW-214 **BUSINESS LAW ESSENTIALS**
E80 eaforni@stcc.edu
E81 SJScibelli@stcc.edu

CHEMISTRY

CHM-101 **SURVEY OF CHEMISTRY 1**
E86 nlchevere@stcc.edu w/ Tuesday evening onsite lab

COLLEGE SUCCESS

FYE-101 **FIRST YEAR EXPERIENCE**
E80 TBA
E81 TBA
E82 TBA

RCH-100 **BASIC RESEARCH**
E80 MPackard@stcc.edu 7 week Session 2

COMPUTER INFORMATION TECHNOLOGY

CIT-101 **CIT FOUNDATIONS**
D80 kshemesh@stcc.edu

CIT-115 **PYTHON PROGRAMMING**
E80 BLCandido@stcc.edu

CIT-115L **LAB: PYTHON PROGRAMMING**
D80 BLCandido@stcc.edu
D81 kshemesh@stcc.edu
E80 BLCandido@stcc.edu

CIT-140L **LAB: WEB AUTHORING 1**
D80 kshemesh@stcc.edu

CIT-201L **LAB: DATABASE SYSTEMS AND SECURITY**
D80 kshemesh@stcc.edu

CIT-225L **LAB: COMPUTER MAINTENANCE A+**
D80 Beane@stcc.edu

CMP-106 **COMPUTER BASICS: CONCEPTS & APPLICATIONS**
D80 RGTetrault@stcc.edu
D81 Belton@stcc.edu
E80 TBA
E81 TBA

CMP-123 **ACCESS**
E80

CMP-124 **POWERPOINT APPLICATIONS**
E80

CMP-125 **DESKTOP PUBLISHING**
D80 Belton@stcc.edu

CRIMINAL JUSTICE

CRJ-101 **INTRODUCTION TO CRIMINAL JUSTICE**
E80 JEAbel@stcc.edu
E80 JEAbel@stcc.edu 7 week Session 1

CRJ-110 **POLICING**
E80 SADupuis@stcc.edu

RJ-110 **POLICING**
E80 SADupuis@stcc.edu 7 week Session 2

CRJ-120 **CRIMINOLOGY**
E80 SADupuis@stcc.edu

CRJ-150 **PROCEDURAL LAW**
E80 SADupuis@stcc.edu

CRJ-210 **CRIMINAL INVESTIGATION**
E80 SADupuis@stcc.edu

DIGITAL MEDIA TECHNOLOGY

DMP-141 **FILM STRUCTURE AND ANALYSIS**
D80 JWakelin@stcc.edu

ECONOMICS

ECN-101 **INTRO TO MACROECONOMICS**
D80 MMagala@stcc.edu
E81 SIReine@stcc.edu

ECN-102 **INTRO TO MICROECONOMICS**
D80 MMagala@stcc.edu

EDUCATION

ECE-170 **INFANT AND TODDLER CARE**
E80 BJPead@stcc.edu

ENGLISH

DRG-091 **READING LEVEL 1**
E81 KARoyall@stcc.edu

DRG-092 **READING LEVEL 2**
D80 KEPerry@stcc.edu

DWT-099 **REVIEW FOR COLLEGE WRITING**
E80 JAWNewman@stcc.edu

ENG-101 **ENGLISH COMPOSITION 1**
E81 ELeonard@stcc.edu
E83 PJongbloed@stcc.edu
E84 NPickett@stcc.edu
E86 dlindner@stcc.edu
E87 JJStefaniak@stcc.edu
E80 ELeonard@stcc.edu 7 week Session 1

ENG-101H **HONORS ENGLISH COMPOSITION 1**
E80 JJStefaniak@stcc.edu

Online Courses

ENG-102 **ENGLISH COMPOSITION 2**
D80 TVShea@stcc.edu
D84 JACrosier@stcc.edu
E82 mcook@stcc.edu
E84 JACrosier@stcc.edu
E85 dlindner@stcc.edu
E82 mcook@stcc.edu 7 week Session 2

ENG-104 **TECHNICAL REPORT WRITING**
E80 MSias@stcc.edu

ENG-107 **INTRODUCTION TO CREATIVE WRITING**
D80 PJongbloed@stcc.edu

ENG-211 **AMERICAN LITERATURE: 1860 - PRESENT**
D80 JACrosier@stcc.edu

ENG-226 **MAGIC IN LITERATURE**
D80 PJongbloed@stcc.edu

ENG-240 **SEX & SEXUALITY IN WESTERN LITERATURE**
D80 Djemerson@stcc.edu

HEALTH & FITNESS

IND-115 **HEALTH AND WELLNESS**
D80 CFuller@stcc.edu

HEALTH INFORMATION TECH

HIT-111 **HEALTH OFFICE ADVANCED**
D80 TMcKethan@stcc.edu

HIT-130 **ELECTRONIC HEALTH RECORDS**
D80 TMcKethan@stcc.edu

HIT-206 **PREPARATION FOR THE CERTIFIED CODING ASSISTING EXAM**
E80 TMcKethan@stcc.edu 7 week Session 1

HIT-255 **LAW AND ETHICS IN HEALTHCARE**
E80 LGCorcoran@stcc.edu

HIT-269 **RHIT EXAM PREP**
D80 TMcKethan@stcc.edu

HISTORY

HIS-100 **SURVEY OF EARLY WESTERN CIVILIZATION**
E81 JJDiffley@stcc.edu

HIS-110 **SURVEY OF U.S. HISTORY AND GOVERNMENT**
E81 JJDiffley@stcc.edu
E80 JJDiffley@stcc.edu 7 week Session 1

HIS-111 **SURVEY OF MODERN U.S. HISTORY**
E80 JAGuillory@stcc.edu
E80 JAGuillory@stcc.edu 7 week Session 2

HIS-154 **SOCIAL CHANGE IN THE 1960S**
E80 JAGuillory@stcc.edu

MANAGEMENT

MGT-101 **PRINCIPLES OF MANAGEMENT**
D85
D86 GOlmsted@stcc.edu 7 week Session 2

MGT-260 **ORGANIZATIONAL BEHAVIOR**
D81 CRAtwater@stcc.edu
D82

MARKETING

MKT-101 **PRINCIPLES OF MARKETING**
D83 dsabato@stcc.edu
D82 GOlmsted@stcc.edu 7 week Session 1

MKT-250 **DIGITAL MARKETING**
D80 dsabato@stcc.edu

MATHEMATICS

MAT-078 **PRE-ALGEBRA**
E80 julikin@stcc.edu
E82 ZHaddad@stcc.edu
E84 NMBedinelli@stcc.edu

MAT-087 **ALGEBRA 1**
E80 ZHaddad@stcc.edu
E81 DSnyder@stcc.edu
E85 AFSimao@stcc.edu

MAT-097 **ALGEBRA 2**
E81 julikin@stcc.edu
E84 VHill@stcc.edu
E84 VHill@stcc.edu 7 week Session 2

MAT-098 **ALGEBRA 2 FOR STEM MAJORS**
E80 VHill@stcc.edu

MAT-100 **CONTEMPORARY MATHEMATICAL APPLICATIONS**
E80 AFSimao@stcc.edu

MAT-101 **MATH IN A MODERN SOCIETY**
E80 AFSimao@stcc.edu

MAT-115 **STATISTICS**
E80 JMMagnier@stcc.edu
E81 DSnyder@stcc.edu
E84 NMBedinelli@stcc.edu
E84 NMBedinelli@stcc.edu 7 week Session 2

MAT-122 **APPLIED MATHEMATICS 1**
E80 DBedinelli@stcc.edu

MAT-124 **TECHNICAL MATH 1**
E80 Brewer@stcc.edu

MAT-125 **TECHNICAL MATH 2**
E80 Brewer@stcc.edu

MAT-127 **CALCULUS FOR BUS, LIFE AND SOC.SCI 1**
E80 JMMagnier@stcc.edu

MAT-220 **DISCRETE STRUCTURES**
E80 JMMagnier@stcc.edu

MAT-233 **CALCULUS III**
E80 Burns@stcc.edu

Online Courses

MAT-240 LINEAR ALGEBRA
E80 JMMagnier@stcc.edu

MAT-240L LAB: LINEAR ALGEBRA
E80 JMMagnier@stcc.edu

MAT-255 DIFFERENTIAL EQUATIONS
E81 DBedinelli@stcc.edu

MEDICAL ASSISTING

MED-100 MEDICAL TERMINOLOGY 1
E80 showell@stcc.edu
E81 showell@stcc.edu

MED-102 HUMAN BODY IN HEALTH AND DISEASE
D80 scperez@stcc.edu

MED-115 PHARMACOLOGY
E80 taprzybylowicz@stcc.edu

MUSIC

MUS-101 MUSIC APPRECIATION 1
E80 Levarts@stcc.edu

MUS-120 HISTORY OF MUSIC
E80 Levarts@stcc.edu

MUS-122 HISTORY OF ROCK
E80 Levarts@stcc.edu

OFFICE INFORMATION TECHNOLOGY

OIT-100 BASIC KEYBOARDING SKILLS
E80 TBA 7 week Session 1
E81 TBA 7 week Session 2

PHILOSOPHY

PHL-110 WORLD RELIGIONS
E80 LMeccouri@stcc.edu
E81 LMeccouri@stcc.edu

PHL-220 ETHICS IN CRIMINAL JUSTICE
E80 JJDiffley@stcc.edu

PHL-255 ETHICS IN SOCIAL WORK & HUMAN SERVICES
E80 SAMcIntyre@stcc.edu

PHYSICS

PHY-116 PHYSICS OF GREEN ENERGY
E80 Washburn@stcc.edu w/Wed. evening onsite lab

PHY-221 PHYSICS 1
E52 BMcGinnis-Cavanaugh@stcc.edu

PSYCHOLOGY

PSY-101 GENERAL PSYCHOLOGY
E81 Nrice@stcc.edu
E82 Nrice@stcc.edu
E84 LMPeters@stcc.edu
E85 LMPeters@stcc.edu

PSY-210 LIFESPAN HUMAN GROWTH & DEVELOPMENT
E80 taprzybylowicz@stcc.edu
E81 Nrice@stcc.edu
E81 lschlegel@stcc.edu 7 week Session 2

PSY-215 THEORIES OF PERSONALITY
E80 Nrice@stcc.edu

PSY-225 COGNITIVE PSYCHOLOGY: LEARNING & MEMORY
E80 TCyranowski@stcc.edu

PSY-230 PRINCIPLES OF NORMAL/ABNORMAL BEHAVIOR
E81 Nrice@stcc.edu

PSY-240 INTRO TO FORENSIC PSYCHOLOGY
E80 BGTirado@stcc.edu

SIGN LANGUAGE

ASL-101 AMERICAN SIGN LANGUAGE 1
E80 TKing@stcc.edu

SOCIOLOGY

SOC-101 INTRODUCTION TO SOCIOLOGY
D80 JLCarreiro@stcc.edu
E81 Vigorita@stcc.edu
E83 GADefillipo@stcc.edu

SOC-200 SOCIAL PROBLEMS
E81 JLCarreiro@stcc.edu

SOC-210 RACE AND SOCIETY
D80 JLCarreiro@stcc.edu

SPANISH

SPN-210 PROFESSIONAL WRITING IN SPANISH
E80 MNorbis@stcc.edu

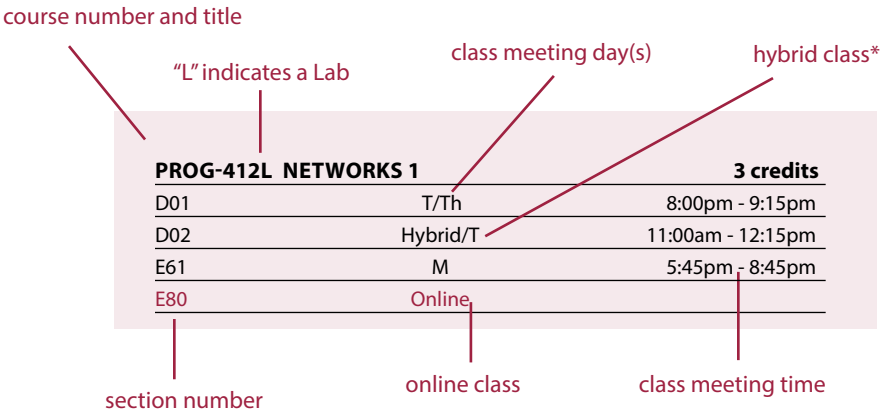
Credit Course Schedule

COURSES IN THIS BROCHURE

There are many more day courses offered at STCC than are listed in this brochure, particularly in the areas of health sciences and engineering technologies. Generally these are restricted to students who are progressing toward a degree in that department, and require previous courses as prerequisites.

For a listing of the entire Springfield Technical Community College curriculum, visit stcc.edu/explore/descriptions. For more information, please contact the Admissions Office at (413) 755-3333.

KEY TO COURSE LISTINGS



**Hybrid means that the course is a cross between an online course and a traditional course. There are fewer face-to-face meetings and work is submitted online through Blackboard (online course delivery system). For example, a course which traditionally meets 2 or 3 times per week will meet 1 or 2 times per week and the balance of the work is submitted online. Computer requirements are listed on the Online Education page. If a student is concerned about computer access they need not worry. Computers are available on campus and assistance is available in the library. Hybrid courses have the same credit, prerequisites and course outlines as a face-to-face course. The advantage for many students is that there is more flexibility with a hybrid course.*

ACCOUNTING

ACC-101	ACCOUNTING 1	4 CREDITS
D01	Hybrid/T/TH	8:00 AM-9:15 AM
D04	MF	10:10 AM-11:00 AM
D04	T/TH	9:30 AM-10:45 AM
D05	W	4:45 PM-8:45 PM
E80	Online	
E81	Online	7-week Session 1
D01	M/W	9:05 AM-9:55 AM

ACC-102	ACCOUNTING 2	4 CREDITS
D01	T/TH	9:30 AM-10:45 AM
E51	M	5:45 PM-9:45 PM
E80	Online	
E81	Online	7-week Session 2

ACC-106	FINANCIAL ACCOUNTING	4 CREDITS
D01	M/W	9:05 AM-9:55 AM
D01	T/TH	9:30 AM-10:45 AM
Accounting		

ACC-260	MANAGERIAL ACCOUNTING	3 CREDITS
D01	Hybrid/M/W/F	11:15 AM-12:05 PM
E51	Hybrid/T	5:45 PM-9:30 PM

ANTHROPOLOGY

SOC-105	INTRODUCTION TO ANTHROPOLOGY	3 CREDITS
D01	M/W/F	9:05 AM-9:55 AM

ARABIC

ARB-101	ELEMENTARY ARABIC 1	3 CREDITS
E53	W	6:00 PM-9:00 PM

ARCHITECTURE & BUILDING TECHNOLOGY

ABT-125	ARCHITECTURAL CAD	2 CREDITS
D01	T/TH	2:00 PM-2:50 PM
D02	M/W	1:35 PM-2:25 PM
E51	TH	5:30 PM-7:25 PM

ABT-125L	LAB: ARCHITECTURAL CAD	1 CREDIT
D01	T/TH	3:00 PM-4:45 PM
D02	M/W	2:30 PM-4:00 PM
E51	TH	7:30 PM-9:45 PM

ABT-150	ARCHITECTURAL DESIGN 1: DESIGN PROCESS 2D	2 CREDITS
D01	M/W	1:35 PM-2:25 PM
D02	T/TH	12:30 PM-1:30 PM
E51	M/W	5:30 PM-6:20 PM

Credit Course Schedule

ABT-150L	LAB: ARCHITECTURAL DESIGN 1: PROCESS 2D	2 CREDITS
D01	M/W	2:40 PM-5:10 PM
D02	T/TH	1:30 PM-4:00 PM
E51	M/W	6:30 PM-9:15 PM

ABT-210	BUILDING CODES AND PRINCIPLES	3 CREDITS
D01	M/W	10:50 AM-12:05 PM

ABT-220	SUSTAINABILITY & THE BUILT ENVIRONMENT	3 CREDITS
D01	T/TH	12:30 PM-1:45 PM
E51	M	5:30 PM-8:30 PM

ABT-225	INTRODUCTION TO BUILDING INFO MODELING	2 CREDITS
D01	M/W	8:00 AM-8:50 AM
E51	T	5:30 PM-7:15 PM

ABT-225L	LAB: INTRO TO BUILDING INFO MODELING	1 CREDIT
D01	M/W	9:00 AM-10:30 AM
E51	T	7:20 PM-9:45 PM

ABT-250	ARCH DESIGN 3: PUBLIC/COMMERCIAL SPACES	2 CREDITS
D01	M	1:35 PM-3:40 PM

ABT-250L	LAB: ARCHITECTURAL DESIGN 3: PUBLIC/ COMMERCIAL SPACES	1 CREDIT
D01	W	1:35 PM-4:35 PM

ARTS

ART-101	INTRO TO ART: BASIC DESIGN	2 CREDITS
D01	T/TH	11:00 AM-11:50 AM

ART-101L	LAB: INTRO TO ART: BASIC DESIGN	1 CREDIT
D01	T/TH	12:00 PM-1:15 PM

ART-102	BASIC DRAWING	2 CREDITS
D01	M/W	8:00 AM-8:50 AM
D02	M/W	1:35 PM-2:25 PM
E51	T/TH	6:10 PM-7:05 PM

ART-102L	LAB: BASIC DRAWING	1 CREDIT
D01	M/W	8:51 AM-10:06 AM
D02	M/W	2:30 PM-3:45 PM
E51	T/TH	7:10 PM-8:30 PM

ART-103	BASIC DESIGN 2	2 CREDITS
D01	T/TH	8:00 AM-8:50 AM

ART-103L	LAB: BASIC DESIGN 2	1 CREDIT
D01	T/TH	9:00 AM-10:15 AM

ART-120	ART HISTORY: PREHISTORIC TO GOTHIC	3 CREDITS
D01	T/TH	9:30 AM-10:45 AM
E80	Online	

ART-121	ART HISTORY: RENAISSANCE TO MODERN	3 CREDITS
D01	T/TH	11:00 AM-12:15 PM

ART-123	ART AND CULTURE	3 CREDITS
D01	M/W/F	11:15 AM-12:05 PM

ART-130	PAINTING 1	2 CREDITS
D01	M/W	8:00 AM-8:50 AM

ART-130L	LAB: PAINTING 1	1 CREDIT
D01	M/W	8:51 AM-10:06 AM

ART-140	PRINTMAKING 1	2 CREDITS
D01	M/W	10:10 AM-11:00 AM

ART-140L	LAB: PRINTMAKING 1	1 CREDIT
D01	M/W	11:01 AM-12:16 PM

ART-150	INTRODUCTION TO PHOTOGRAPHY	2 CREDITS
D01	T/TH	8:30 AM-9:20 AM
D02	T/TH	11:00 AM-11:50 AM

ART-150L	LAB: INTRODUCTION TO PHOTOGRAPHY	1 CREDIT
D01	T/TH	9:30 AM-10:45 AM
D02	T/TH	12:00 PM-1:15 PM

ART-206	FIGURE DRAWING	2 CREDITS
D01	M/W	8:00 AM-8:50 AM

ART-206L	LAB: FIGURE DRAWING	1 CREDIT
D01	M/W	8:51 AM-10:06 AM

BIOLOGICAL SCIENCE

BIO-101	PRINCIPLES OF BIOLOGY 1	3 CREDITS
D01	M/W/F	10:10 AM-11:00 AM
D03	M/W/F	11:15 AM-12:05 PM
D05	T/TH	8:00 AM-9:15 AM
D07	M/W/F	8:00 AM-8:50 AM
D09	M/W/F	9:05 AM-9:55 AM
D11	T/TH	9:30 AM-10:45 AM
D80	Online	
E51	M	6:00 PM-9:00 PM
E52	TH	6:00 PM-9:00 PM
E80	Online	

BIO-101L	LAB: PRINCIPLES OF BIOLOGY 1	1 CREDIT
D01	F	1:35 PM-3:15 PM
D02	T	10:00 AM-11:40 AM
D03	M	1:35 PM-3:15 PM
D04	F	1:35 PM-3:15 PM
D06	TH	9:30 AM-11:10 AM
D07	W	1:35 PM-3:15 PM
D08	M	1:35 PM-3:15 PM
D09	T	8:00 AM-9:40 AM
D11	T	11:00 AM-12:40 PM
D12	T	1:15 PM-2:55 PM
D80	Online	

Credit Course Schedule

E51	W	6:00 PM-9:00 PM
E52	T	6:00 PM-9:00 PM
E80	Online	

BIO-104 HUMAN BIOLOGY 1 — 3 CREDITS

D01	M/W/F	9:05 AM-9:55 AM
D05	M/W/F	10:10 AM-11:00 AM
E51	W	6:00 PM-9:00 PM

BIO-104L LAB: HUMAN BIOLOGY 1 — 1 CREDIT

D01	W	1:35 PM-3:15 PM
D02	TH	1:15 PM-2:55 PM
D05	TH	11:00 AM-12:40 PM
D06	F	1:35 PM-3:15 PM
E51	M	6:00 PM-9:00 PM

BIO-105 HUMAN BIOLOGY 2 — 3 CREDITS

D01	T/TH	12:30 PM-1:45 PM

BIO-105L LAB: HUMAN BIOLOGY 2 — 1 CREDIT

D01	TH	2:00 PM-3:40 PM

BIO-106 PRINCIPLES OF INFECTIOUS DISEASE — 3 CREDITS

E80	Online	

BIO-107 WORLD FOOD HABITS & SUSTAINABILITY — 3 CREDITS

D01	M/W	1:00 PM-2:15 PM

BIO-107L LAB: WORLD FOOD HABITS & SUSTAINABLTY — 1 CREDIT

D01	W	2:30 PM-4:10 PM

BIO-109 FORENSIC BIOLOGY — 3 CREDITS

E80	Online	

BIO-109L LAB: FORENSIC BIOLOGY — 1 CREDIT

E80	T	9:00 AM-10:45 AM

BIO-112 THE BIOLOGY OF HYDROPONICS — 3 CREDITS

D01	M/W	11:00 AM-12:15 PM

BIO-114 BIOCHEMISTRY — 3 CREDITS

D01	M/W/F	10:10 AM-11:00 AM
D80	Online	
E51	W	5:30 PM-8:30 PM

BIO-115 NUTRITION — 3 CREDITS

D01	M/W/F	8:00 AM-8:50 AM
D02	M/W/F	11:15 AM-12:05 PM
E65	S	9:00 AM-12:00 PM
E80	Online	7-week Session 2
E81	Online	7-week Session 1
E82	Online	

BIO-119 ESSENTIALS OF HUMAN BIOLOGY 1 — 2 CREDITS

D01	M/W	8:00 AM-8:50 AM

BIO-119L LAB: ESSENTIALS OF HUMAN BIOLOGY 1 — 1 CREDIT

D01	TH	8:00 AM-9:40 AM
D02	T	8:00 AM-9:40 AM

BIO-141 FUNDAMENTALS OF ENVIRONMENTAL BIOLOGY — 3 CREDITS

D01	M/W/F	9:05 AM-9:55 AM
E82	Online	

BIO-141L LAB: FUNDAMENTALS OF ENVIRONMENTAL BIOLOGY — 1 CREDIT

D01	TH	8:30 AM-11:00 AM
D02	TH	12:30 PM-3:00 PM
E82	Online	

BIO-201 BIOLOGY 1 — 3 CREDITS

D01	M/W/F	9:05 AM-9:55 AM
D03	M/W/F	11:15 AM-12:05 PM

BIO-201L LAB: BIOLOGY 1 — 1 CREDIT

D01	M	1:35 PM-4:25 PM
D03	T	9:00 AM-11:50 AM
D04	T	1:00 PM-3:50 PM

BIO-202 BIOLOGY 2 — 3 CREDITS

D01	T/TH	8:00 AM-9:15 AM

BIO-202L LAB: BIOLOGY 2 — 1 CREDIT

D01	T	12:45 PM-3:15 PM

BIO-231 ANATOMY & PHYSIOLOGY 1 — 3 CREDITS

D01	M/W/F	1:15 PM-2:05 PM
D05	T/TH	8:00 AM-9:15 AM
D07	M/W/F	10:10 AM-11:00 AM 7-week Session 1
D07	M/W/F	11:15 AM-12:05 PM 7-week Session 1
D09	T/TH	11:00 AM-12:15 PM
D11	T/TH	9:30 AM-10:45 AM
D13	M/W/F	11:15 AM-12:05 PM
D80	Online	
D81	Online	
E52	M	5:00 PM-8:00 PM
E53	M	6:00 PM-9:00 PM
E80	Online	
E86	Online	

BIO-231L LAB: ANATOMY & PHYSIOLOGY 1 — 1 CREDIT

D01	M	2:15 PM-4:45 PM
D02	W	2:15 PM-4:45 PM
D05	T	12:30 PM-3:00 PM
D06	W	8:00 AM-10:30 AM
D07	M/W	1:35 PM-4:05 PM 7-week Session 1
D08	T	1:00 PM-3:30 PM 7-week Session 1
D08	T	9:30 AM-12:00 PM 7-week Session 1
D09	TH	8:00 AM-10:30 AM

Credit Course Schedule

D10	TH	12:30 PM-3:00 PM
D11	M	9:30 AM-12:00 PM
D12	W	9:30 AM-12:00 PM
D13	M	1:35 PM-4:05 PM
D14	W	1:35 PM-4:05 PM
D80	T	9:30 AM-12:00 PM
D81	T	12:30 PM-3:00 PM
E52	W	5:00 PM-8:00 PM
E53	W	6:00 PM-9:00 PM
E80	T	5:30 PM-8:30 PM
E86	TH	5:30 PM-8:30 PM

BIO-232	**ANATOMY & PHYSIOLOGY 2**	**3 CREDITS**
D03	M/W/F	10:10 AM-11:00 AM 7-week Session 2
D03	M/W/F	11:15 AM-12:05 PM 7-week Session 2
D05	T/TH	11:00 AM-12:15 PM
D80	Online	
D81	Online	
E50	T	5:00 PM-8:00 PM
E51	W	6:00 PM-9:00 PM
E86	Online	
D03	M/W	1:35 PM-4:05 PM 7-week Session 2

BIO-232L	**LAB: ANATOMY & PHYSIOLOGY 2**	**1 CREDIT**
D04	T	1:00 PM-3:30 PM 7-week Session 2
D04	T	9:30 AM-12:00 PM 7-week Session 2
D05	TH	1:00 PM-3:30 PM
D06	T	1:00 PM-3:30 PM
D80	M	9:30 AM-12:00 PM
D81	W	9:30 AM-12:00 PM
E50	TH	5:00 PM-8:00 PM
E51	M	6:00 PM-9:00 PM
E86	W	6:30 PM-9:30 PM

BIO-235	**MICROBIOLOGY**	**3 CREDITS**
D01	T/TH	11:00 AM-12:15 PM
D03	T/TH	12:30 PM-1:45 PM
D05	M/W/F	11:15 AM-12:05 PM
E50	W	5:00 PM-8:00 PM
E52	T	6:00 PM-9:00 PM

BIO-235L	**LAB: MICROBIOLOGY**	**1 CREDIT**
D01	M	1:35 PM-4:05 PM
D02	W	1:35 PM-4:05 PM
D03	TH	2:00 PM-4:30 PM
D04	T	2:00 PM-4:30 PM
D05	W	1:35 PM-4:05 PM
D06	M	2:00 PM-4:30 PM
E50	M	5:00 PM-8:00 PM
E52	TH	6:00 PM-9:00 PM

BIO-263	**GENETICS**	**3 CREDITS**
D01	M/W/F	11:15 AM-12:05 PM

BIO-263L	**LAB: GENETICS**	**1 CREDIT**
D01	TH	2:00 PM-4:30 PM

BIOMEDICAL ENGINEERING TECHNOLOGY

BMT-101	**INTRO TO BIOMEDICAL DEVICES & INDUSTRY**	**3 CREDITS**
D01	M/W/F	9:05 AM-9:55 AM

BMT-210	**BIOMEDICAL SYSTEMS**	**3 CREDITS**
D01	T/TH	9:30 AM-10:45 AM

BMT-210L	**LAB: BIOMEDICAL SYSTEMS**	**1 CREDIT**
D01	T/TH	11:00 AM-12:15 PM

BMT-220	**SENSORS FOR BIOMEDICAL SYSTEMS**	**3 CREDITS**
D01	T/TH	2:00 PM-3:15 PM

BMT-220L	**LAB: SENSORS FOR BIOMEDICAL SYSTEMS**	**1 CREDIT**
D01	T/TH	3:30 PM-4:45 PM

BIOTECHNOLOGY

BIO-164	**INTRODUCTION TO BIOTECHNOLOGY**	**3 CREDITS**
D01	M/W/F	9:05 AM-9:55 AM

BIO-164L	**LAB: INTRODUCTION TO BIOTECHNOLOGY**	**1 CREDIT**
D01	TH	8:00 AM-10:45 AM

BUSINESS ADMINISTRATION

BUS-105	**INTRODUCTION TO PERSONAL FINANCE**	**3 CREDITS**
D01	T/TH	11:00 AM-12:15 PM
D80	Online	

BUS-222	**BUSINESS DECISION TOOLS**	**3 CREDITS**
D01	T/TH	11:00 AM-12:15 PM

ENT-101	**INTRODUCTION TO ENTREPRENEURSHIP**	**3 CREDITS**
D01	T/TH	11:00 AM-12:15 PM

FIN-101	**INTRODUCTION TO FINANCE**	**3 CREDITS**
D02	T/TH	11:00 AM-12:15 PM
D81	Online	
E51	T	6:15 PM-9:15 PM

LAW-214	**BUSINESS LAW ESSENTIALS**	**3 CREDITS**
D01	T/TH	12:30 PM-1:45 PM
E80	Online	
E81	Online	

Credit Course Schedule

CHEMISTRY

CHM-101	SURVEY OF CHEMISTRY 1	3 CREDITS
D01	T/TH	9:30 AM-10:45 AM
D02	M/W/F	9:05 AM-9:55 AM
E51	M	6:00 PM-9:00 PM
E86	Online	

CHM-101L	LAB: SURVEY OF CHEMISTRY 1	1 CREDIT
D01	TH	2:00 PM-4:30 PM
D02	W	1:35 PM-4:05 PM
D03	F	1:35 PM-4:05 PM
E51	W	6:00 PM-9:00 PM
E86	T	6:30 PM-9:30 PM

CHM-111	GENERAL CHEMISTRY 1	3 CREDITS
D03	M/W/F	10:10 AM-11:00 AM
D05	M/W/F	9:05 AM-9:55 AM
D07	T/TH	11:00 AM-12:15 PM
E51	W	6:00 PM-9:00 PM

CHM-111L	LAB: GENERAL CHEMISTRY 1	1 CREDIT
D03	M	2:00 PM-4:30 PM
D05	F	1:35 PM-4:05 PM
D06	W	2:30 PM-5:00 PM
D07	T	2:00 PM-4:30 PM
E51	M	6:00 PM-9:00 PM

CHM-112	GENERAL CHEMISTRY 2	3 CREDITS
D01	M/W/F	11:15 AM-12:05 PM
E51	TH	6:00 PM-9:00 PM
D01	F	2:30 PM-5:00 PM
E51	T	6:00 PM-9:00 PM

CHM-201	ORGANIC CHEMISTRY 1	3 CREDITS
D01	M/W/F	11:15 AM-12:05 PM
E51	T	6:00 PM-9:00 PM

CHM-201L	LAB: ORGANIC CHEMISTRY 1	1 CREDIT
D01	W	1:35 PM-4:05 PM
E51	TH	6:00 PM-9:00 PM

CIVIL ENGINEERING TECHNOLOGY

CET-115	CONSTRUCTION MATERIALS & METHODS	3 CREDITS
D01	M/W/F	9:05 AM-9:55 AM
E51	T	5:30 PM-8:30 PM

CET-210	SURVEYING 1	2 CREDITS
D01	T/TH	11:00 AM-11:50 AM

CET-210L	LAB: SURVEYING 1	2 CREDITS
D01	T/TH	12:15 PM-3:15 PM

CET-225	SOILS & FOUNDATIONS	3 CREDITS
D01	M/W/F	10:10 AM-11:00 AM

CET-225L	LAB: SOILS & FOUNDATIONS	1 CREDIT
D01	M/W/F	11:15 AM-12:05 PM

CET-245	STATICS & STRENGTH OF MATERIALS	3 CREDITS
D01	T/TH	8:00 AM-9:15 AM

CET-245L	LAB: STATICS & STRENGTH OF MATERIALS	1 CREDIT
D01	T/TH	9:20 AM-10:45 AM

COLLEGE SUCCESS

FYE-101	FIRST YEAR EXPERIENCE	1 CREDIT
D01	W	8:00 AM-8:50 AM
D01	W/F	1:35 PM-2:25 PM 7-week Session 1
D01	W/F	1:35 PM-2:25 PM 7-week Session 2
D02	M	9:05 AM-9:55 AM
D02	Hybrid/M	1:35 PM-2:25 PM 7-week Session 1
D02	Hybrid/M	1:35 PM-2:25 PM 7-week Session 2
D03	W	9:05 AM-9:55 AM
D04	F	9:05 AM-9:55 AM
D05	F	10:10 AM-11:00 AM
D06	M	1:35 PM-2:25 PM
D07	W	1:35 PM-2:25 PM
D08	T	8:00 AM-8:50 AM
D09	TH	8:00 AM-8:50 AM
D10	T	12:30 PM-1:20 PM
D11	TH	12:30 PM-1:20 PM
D12	T	2:00 PM-2:50 PM
D13	TH	2:00 PM-2:50 PM
E52	T	5:00 PM-5:50 PM
E52	T	5:00 PM-5:50 PM 7-week Session 2
E53	W	5:00 PM-5:50 PM
E80	Online	
E81	Online	
E82	Online	

RCH-100	BASIC RESEARCH	1 CREDIT
E80	Online	7-week Session 2

COMPUTER INFORMATION TECHNOLOGY

CIT-101	CIT FOUNDATIONS	3 CREDITS
D01	T/TH	11:00 AM-12:15 PM
D03	T/TH	9:30 AM-10:45 AM
D80	Online	

Credit Course Schedule

CIT-115	PYTHON PROGRAMMING	3 CREDITS
D01	M/W/F	9:05 AM-9:55 AM
D02	M/W/F	10:10 AM-11:00 AM
E80	Online	

CIT-115L	LAB: PYTHON PROGRAMMING	1 CREDIT
D80	Online	
D81	Online	
D81	Online	
E80	Online	

CIT-120	WINDOWS 1	3 CREDITS
D01	T/TH	11:00 AM-12:15 PM

CIT-121	WINDOWS 2	3 CREDITS
D01	T/TH	9:30 AM-10:45 AM

CIT-130	UNIX 1	3 CREDITS
D01	M/W/F	10:10 AM-11:00 AM

CIT-131	UNIX 2	3 CREDITS
D01	M/W/F	11:15 AM-12:05 PM

CIT-140	WEB AUTHORING 1	3 CREDITS
D01	Hybrid/M/W/F	9:05 AM-9:55 AM

CIT-140L	LAB: WEB AUTHORING 1	1 CREDIT
D80	Online	

CIT-161	NETWORKS 2	3 CREDITS
D01	T/TH	11:00 AM-12:15 PM
D02	T/TH	12:30 PM-1:45 PM

CIT-201	DATABASE SYSTEMS AND SECURITY	3 CREDITS
D01	M/W/F	11:15 AM-12:05 PM

CIT-201L	LAB: DATABASE SYSTEMS AND SECURITY	1 CREDIT
D80	Online	
D80	Online	

CIT-225	COMPUTER MAINTENANCE A+	3 CREDITS
D01	Hybrid/T/TH	8:00 AM-9:15 AM

CIT-225L	LAB: COMPUTER MAINTENANCE A+	1 CREDIT
D80	Online	

CIT-250	INTERNET/NETWORK SECURITY 1	3 CREDITS
D01	Hybrid/M/W/F	9:05 AM-9:55 AM
D02	Hybrid/M/W/F	10:10 AM-11:00 AM

CMP-106	COMPUTER BASICS: CONCEPTS & APPLICATIONS	3 CREDITS
D01	M/W/F	8:00 AM-8:50 AM
D02	M/W/F	9:05 AM-9:55 AM
D03	M/W/F	9:05 AM-9:55 AM
D04	M/W/F	10:10 AM-11:00 AM
D06	M/W	11:15 AM-12:30 PM
D07	T/TH	8:00 AM-9:15 AM
D10	T/TH	9:30 AM-10:45 AM
D12	T/TH	11:00 AM-12:15 PM
D13	T/TH	12:30 PM-1:45 PM
D80	Online	
D81	Online	
D90	T/TH	11:00 AM-12:15 PM 7-week Session 1
D91	T/TH	11:00 AM-12:15 PM 7-week Session 2
E51	M	6:15 PM-9:15 PM
E54	TH	6:15 PM-9:15 PM
E65	S	9:00 AM-12:00 PM
E80	Online	
E81	Online	

CMP-121	WORD PROCESSING	3 CREDITS
D01	M/W/F	10:10 AM-11:00 AM

CMP-122	EXCEL	3 CREDITS
D01	Hybrid/T	9:30 AM-10:45 AM

CMP-123	ACCESS	3 CREDITS
E80	Online	

CMP-124	POWERPOINT APPLICATIONS	2 CREDITS
E80	Online	

CMP-125	DESKTOP PUBLISHING	3 CREDITS
D80	Online	

COMPUTER SCIENCE

CSC-100	INTRODUCTION TO COMPUTER SCIENCE	3 CREDITS
D01	M/W	1:25 PM-2:40 PM

CSC-100L	LAB: INTRODUCTION TO COMPUTER SCIENCE	1 CREDIT
D01	M	2:55 PM-5:25 PM
D02	W	2:40 PM-5:10 PM

CSC-111	INTRO TO THE JAVA PROGRAMMING LANGUAGE	3 CREDITS
D01	M/W/F	10:10 AM-11:00 AM

CSC-111L	LAB: INTRO TO THE JAVA PROGRAMMING LANGUAGE	1 CREDIT
D01	TH	2:00 PM-4:30 PM
D02	F	2:40 PM-5:10 PM

CSC-210	COMPUTER ORGANIZATION & DIGITAL LOGIC	3 CREDITS
D01	T/TH	9:30 AM-10:45 AM

CSC-210L	LAB: COMPUTER ORGANIZATION/ DIGITAL LOGIC	1 CREDIT
D01	T	11:00 AM-12:15 PM
D01	TH	11:00 AM-12:15 PM

CSC-220	DATA STRUCTURES AND ALGORITHMS	3 CREDITS
D01	M/W/F	8:00 AM-8:50 AM

CSC-220L	LAB: DATA STRUCTURES & ALGORITHMS	1 CREDIT
D01	M	1:35 PM-4:05 PM

Credit Course Schedule

COMPUTER SYSTEMS ENGINEERING TECHNOLOGY

CSE-110	INTRO TO COMPUTER SYSTEMS (COMPTIA A+)	2 CREDITS
D01	M/W	11:15 AM-12:05 PM
E51	M	5:45 PM-6:15 PM

CSE-110L	LAB: INTRO TO COMPUTER SYSTEMS (COMPTIA A+)	1 CREDIT
D01	M	1:35 PM-4:05 PM
E51	M	6:20 PM-8:45 PM

CSE-150	LINUX COMMAND & SHELL PROGRAMMING	3 CREDITS
D01	T/TH	2:00 PM-3:15 PM

CSE-160	INTRODUCTION TO PROGRAMMING USING PYTHON	3 CREDITS
D01	T/TH	9:30 AM-10:45 AM
E51	TH	6:00 PM-8:50 PM

CSE-220	COMPUTER AND NETWORK SECURITY	3 CREDITS
D01	M/W	11:00 AM-12:05 PM

CSE-250	INFORMATION STORAGE MANAGEMENT	3 CREDITS
D01	T	8:00 AM-9:15 AM

CSE-250L	LAB: INFORMATION STORAGE MANAGEMENT	1 CREDIT
D01	M	1:35 PM-4:05 PM

CSO-105	CISCO INTRODUCTION TO NETWORKS	3 CREDITS
D01	T/TH	12:30 PM-1:45 PM
D02	T/TH	12:30 PM-1:45 PM

CSO-105L	LAB: CISCO INTRODUCTION TO NETWORKS	1 CREDIT
D01	F	8:30 AM-11:00 AM
D02	W	1:35 PM-4:05 PM

CSO-155	CISCO ROUTING & SWITCHING ESSENTIALS	3 CREDITS
E51	W	5:45 PM-7:15 PM

CSO-155L	LAB: CISCO ROUTING SWITCHING ESSENTIALS	1 CREDIT
E51	W	7:20 PM-9:45 PM

CSO-180	CISCO CCNA CYBER SECURITY OPERATIONS	3 CREDITS
D01	T	8:00 AM-9:15 AM

CSO-180L	LAB: CISCO CCNA CYBER SECURITY OPERATIONS	1 CREDIT
D01	TH	8:00 AM-10:45 AM

CSO-205	SCALING NETWORKS	3 CREDITS
D01	T/TH	12:30 PM-1:45 PM

CSO-205L	LAB: SCALING NETWORKS	1 CREDIT
D01	W	8:30 AM-11:00 AM
D02	M	8:30 AM-11:00 AM

CRIMINAL JUSTICE

CRJ-101	INTRODUCTION TO CRIMINAL JUSTICE	3 CREDITS
D01	M/W/F	8:00 AM-8:50 AM
D02	M/W/F	9:05 AM-9:55 AM
E54	TH	6:00 PM-9:00 PM
E80	Online	
E80	Online	7-week Session 1

CRJ-110	POLICING	3 CREDITS
D01	Hybrid/M/W	10:10 AM-11:00 AM
E80	Online	
E80	Online	7-week Session 2

CRJ-120	CRIMINOLOGY	3 CREDITS
D01	T/TH	11:00 AM-12:15 PM
E80	Online	

CRJ-130	CRIMINAL EVIDENCE	3 CREDITS
D01	M/W/F	9:05 AM-9:55 AM

CRJ-150	PROCEDURAL LAW	3 CREDITS
D01	M/W/F	9:05 AM-9:55 AM
E80	Online	

CRJ-200	CRIMINAL LAW 1	3 CREDITS
E53	W	6:00 PM-9:00 PM

CRJ-210	CRIMINAL INVESTIGATION	3 CREDITS
E52	T	6:00 PM-9:00 PM
E80	Online	

CRJ-215	INTRODUCTION TO CORRECTIONS	3 CREDITS
D01	T/TH	12:30 PM-1:45 PM
E51	M	6:00 PM-9:00 PM

CRJ-220	LAW ENFORCEMENT MANAGEMENT & PLANNING	3 CREDITS
D01	T/TH	11:00 AM-12:15 PM

DIGITAL MEDIA TECHNOLOGY

DMP-101	INTRODUCTION TO MULTIMEDIA	3 CREDITS
D01	M/W/F	9:05 AM-9:55 AM
D02	M/W/F	8:00 AM-8:50 AM

DMP-120	INTRODUCTION TO VIDEO PRODUCTION	3 CREDITS
D01	Hybrid/T/TH	11:00 AM-11:50 AM

DMP-120L	LAB: INTRODUCTION TO VIDEO PRODUCTION	1 CREDIT
D01	T	12:30 PM-3:00 PM
D02	TH	12:30 PM-3:00 PM

Credit Course Schedule

DMP-141	FILM STRUCTURE AND ANALYSIS	3 CREDITS
D80	Online	

DMP-150	INTRODUCTION TO DIGITAL EDITING	2 CREDITS
D01	M/W	10:10 AM-10:45 AM

DMP-150L	LAB: INTRODUCTION TO DIGITAL EDITING	1 CREDIT
D01	M/W	8:30 AM-9:45 AM

DMP-160	AUDIO PRODUCTION 1	2 CREDITS
D01	M/W	11:15 AM-12:05 PM

DMP-160L	LAB: AUDIO PRODUCTION 1	1 CREDIT
D01	M	1:35 PM-4:05 PM

DMP-210	ADVANCED TELEVISION WRITING	3 CREDITS
D01	Hybrid/M/W	11:00 AM-12:00 PM

DMP-211	TV JOURNALISM	3 CREDITS
D01	T/TH	12:30 PM-1:45 PM

DMP-220	DIGITAL FILM MAKING	2 CREDITS
D01	T/TH	9:55 AM-10:45 AM

DMP-220L	LAB: DIGITAL FILM MAKING	1 CREDIT
D01	T/TH	8:25 AM-9:40 AM

DMP-251	INTERACTIVE MULTIMEDIA DESIGN	2 CREDITS
D01	T/TH	8:30 AM-9:20 AM

DMP-251L	LAB: INTERACTIVE MULTIMEDIA DESIGN	1 CREDIT
D01	T/TH	9:30 AM-10:45 AM

DMP-252	DIGITAL SOUND AND VIDEO DESIGN	3 CREDITS
D01	T/TH	11:00 AM-12:15 PM

DMP-260	DIGITAL AUDIO BROADCASTING	3 CREDITS
D01	Hybrid/M/W	10:10 AM-11:00 AM

ECONOMICS

ECN-101	INTRO TO MACROECONOMICS	3 CREDITS
D03	M/W/F	10:10 AM-11:00 AM
D04	M/W/F	11:15 AM-12:05 PM
D80	Online	
E53	W	6:00 PM-9:00 PM

ECN-101	INTRO TO MACROECONOMICS	3 CREDITS
E81	Online	
D01	M/W/F	9:05 AM-10:10 AM
D02	T/TH	11:00 AM-12:15 PM
D80	Online	

EDUCATION

EDU-101	FOUNDATIONS OF EDUCATION: URBAN PERSPECTIVES	3 CREDITS
D01	M/W/F	11:15 AM-12:05 PM

ECE-101	INTRODUCTION TO EARLY CHILDHOOD	3 CREDITS
E54	TH	6:00 PM-9:00 PM

ECE-110	CHILD/GROWTH AND DEVELOPMENT	3 CREDITS
D01	T/TH	9:30 AM-10:45 AM
E51	M/W	6:00 PM-9:00 PM 7-week Session 2
E52	T	6:00 PM-9:00 PM

ECE-155	CREATIVITY & THE ARTS IN EARLY CHILDHOOD	3 CREDITS
D01	W	1:35 PM-4:05 PM

ECE-170	INFANT AND TODDLER CARE	3 CREDITS
E80	Online	

ECE-200	EARLY LITERACY EARLY CHILDHOOD	3 CREDITS
D01	Hybrid/T/TH	11:00 AM-12:15 PM

ECE-200L	LAB: EARLY LITERACY EARLY CHILDHOOD	1 CREDIT
D01	Hybrid/T/TH	12:30 PM-1:45 PM

ECE-220	EARLY CHILDHOOD PRACTICUM 1	4 CREDITS
E52	T	5:30 PM-7:00 PM

ECE-221	EARLY CHILDHOOD PRACTICUM 2	6 CREDITS
E53	W	5:30 PM-7:00 PM

EDU-102	INTRODUCTION TO SPECIAL NEEDS	3 CREDITS
D01	M/W/F	10:10 AM-11:00 AM

EDU-103	INTRO TO LANGUAGE, LITERACY & LANGUAGE ARTS	3 CREDITS
D01	M/W/F	11:15 AM-12:05 PM

ELECTRICAL ENGINEERING TECHNOLOGY

EET-101	PCS, PROGRAMMING & ROBOTS	2 CREDITS
D01	M/W	10:10 AM-11:00 AM

EET-101L	LAB: PCS, PROGRAMMING & ROBOTS	1 CREDIT
D01	T	2:30 PM-5:00 PM

EET-104	SAFETY & HEALTH IN INDUSTRY	1 CREDIT
D50	M/W/F	9:05 AM-9:55 AM

EET-105	TECHNICAL DIAGRAMS FOR AUTOMATION	1 CREDIT
D60	M/W/F	9:05 AM-9:55 AM

EET-106	DEVELOPING TROUBLESHOOTING SKILLS	1 CREDIT
D70	M/W/F	9:05 AM-9:55 AM

EET-110	BASIC ELECTRICITY 1	2 CREDITS
D01	W/F	8:00 AM-8:50 AM
E51	W	5:30 PM-7:10 PM

EET-110L	LAB: BASIC ELECTRICITY 1	1 CREDIT
D02	TH	2:30 PM-5:00 PM
E51	W	7:15 PM-9:45 PM

Credit Course Schedule

EET-120	FLUID POWER TECHNOLOGY	3 CREDITS
D01	M	1:35 PM-4:05 PM
E51	TH	5:30 PM-8:00 PM
EET-130	**FUNDAMENTALS OF MOTOR CONTROL**	**2 CREDITS**
E51	M	5:30 PM-7:10 PM
EET-130L	**LAB: FUNDAMENTALS OF MOTOR CONTROL**	**1 CREDIT**
E51	M	7:15 PM-9:45 PM
EET-200	**SOLID-STATE ELECTRONICS**	**2 CREDITS**
D01	T/TH	8:30 AM-9:20 AM
EET-200L	**LAB: SOLID-STATE ELECTRONICS**	**1 CREDIT**
D01	T	9:30 AM-12:00 PM
D02	TH	9:30 AM-12:00 PM
D03	W	1:35 PM-4:05 PM
EET-210	**DIGITAL AND LINEAR CIRCUITS**	**2 CREDITS**
D01	M/W	11:15 AM-12:05 PM
EET-210L	**LAB: DIGITAL AND LINEAR CIRCUITS**	**1 CREDIT**
D01	T	12:00 PM-2:30 PM
D02	TH	12:00 PM-2:30 PM
D03	F	1:35 PM-4:05 PM
EET-235	**PROGRAMMABLE LOGIC CONTROLLER 2**	**2 CREDITS**
D01	M/W	10:10 AM-11:00 AM
EET-235L	**LAB: PROGRAMMABLE LOGIC CONTROLLER 2**	**1 CREDIT**
D01	T	12:00 PM-2:30 PM
D02	TH	12:00 PM-2:30 PM
D03	W	1:35 PM-4:05 PM
EET-240	**ROBOTICS AND AUTOMATED SYSTEMS**	**2 CREDITS**
D01	M/W	9:05 AM-9:55 AM
EET-240L	**LAB: ROBOTICS & AUTOMATED SYSTEMS**	**1 CREDIT**
D01	T	9:30 AM-12:00 PM
D02	TH	9:30 AM-12:00 PM
D03	M	1:35 PM-4:05 PM
EET-250	**CONTROL SYSTEM THEORY**	**2 CREDITS**
E51	TH	5:30 PM-6:20 PM
EET-250L	**LAB: CONTROL SYSTEM THEORY**	**1 CREDIT**
E51	TH	6:30 PM-9:00 PM
EET-260	**MICROPROCESSOR APPLICATIONS**	**2 CREDITS**
E51	T	5:30 PM-6:20 PM
EET-260L	**LAB: MICROPROCESSOR APPLICATIONS**	**1 CREDIT**
E51	T	6:30 PM-9:00 PM
ELE-110	**ELECTRONICS FOR TECHNICIANS 1**	**2 CREDITS**
D01	M/W	8:00 AM-8:50 AM
D02	F	10:10 AM-12:05 PM
ELE-110L	**LAB: ELECTRONICS FOR TECHNICIANS 1**	**1 CREDIT**
D02	F	2:00 PM-4:30 PM
D03	F	1:35 PM-4:05 PM
D04	M	2:00 PM-4:45 PM
ELE-111	**INTERNET OF THINGS (IOT)**	**3 CREDITS**
D01	W	8:30 AM-11:00 AM
D02	T/TH	8:00 AM-9:15 AM
ELE-111L	**LAB: INTERNET OF THINGS (IOT)**	**1 CREDIT**
D01	W	1:35 PM-4:05 PM
D02	TH	9:30 AM-12:00 PM
ELE-120	**PRINTED CIRCUIT DESIGN**	**3 CREDITS**
D01	M/W/F	10:10 AM-11:00 AM
ELE-210	**CIRCUIT THEORY**	**3 CREDITS**
D01	M/W/F	11:15 AM-12:05 PM
ELE-210L	**LAB: CIRCUIT THEORY**	**1 CREDIT**
D01	M	1:30 PM-4:00 PM
ELE-220	**COMMUNICATIONS SYSTEMS**	**3 CREDITS**
D01	M/W/F	8:00 AM-8:50 AM
ELE-220L	**LAB: COMMUNICATIONS SYSTEMS 1**	**1 CREDIT**
D01	M/W/F	9:00 AM-9:50 AM
ELE-230	**WIRELESS NETWORKS**	**2 CREDITS**
D01	T	2:00 PM-3:20 PM
ELE-230L	**LAB: WIRELESS NETWORKS**	**1 CREDIT**
D01	T/TH	3:30 PM-4:45 PM
ELE-240	**SENSORS AND DATA ACQUISITION**	**3 CREDITS**
D01	F	10:10 AM-12:05 PM
ELE-240L	**LAB: SENSORS AND DATA ACQUISTION**	**1 CREDIT**
D01	F	1:35 PM-4:05 PM
ELE-250	**PROJECT RESEARCH AND DEVELOPMENT**	**2 CREDITS**
D01	M	10:10 AM-11:00 AM

ENERGY SYSTEMS TECHNOLOGY

EST-100	THEORY OF CONTROLS	3 CREDITS
E51	M	6:00 PM-8:30 PM
EST-101	**COMBUSTION CONTROL CIRCUITS**	**3 CREDITS**
E51	M	6:00 PM-8:30 PM
EST-102	**ENERGY SYSTEMS LAB 1**	**1 CREDIT**
E51	W	6:00 PM-6:50 PM
EST-102L	**LAB: ENERGY SYSTEMS LAB 1**	**1 CREDIT**
D01	M	1:30 PM-4:15 PM
D02	T	1:30 PM-4:15 PM
D03	W	1:35 PM-4:15 PM
E51	W	6:55 PM-9:45 PM

Credit Course Schedule

EST-103	ENERGY SYSTEMS LAB 2	1 CREDIT
E51	T	6:00 PM-6:50 PM
E51	T	6:55 PM-9:45 PM
EST-200	**PRINCIPLES OF REFRIGERATION**	**2 CREDITS**
E51	T	5:30 PM-7:10 PM
EST-200L	**LAB: PRINCIPLES OF REFRIGERATION**	**1 CREDIT**
D01	TH	8:00 AM-10:45 AM
D02	TH	12:30 PM-3:15 PM
D03	M	1:35 PM-4:20 PM
E51	T	7:15 PM-9:45 PM
EST-202	**POWER PLANT OPERATIONS**	**3 CREDITS**
E51	T	6:00 PM-8:30 PM
EST-206	**MICROPROCESSOR CONTROLS**	**2 CREDITS**
D01	M/W	8:00 AM-8:50 AM
E51	TH	5:30 PM-7:10 PM
EST-206L	**LAB: MICROPROCESSOR CONTROLS**	**1 CREDIT**
D01	T	8:00 AM-10:45 AM
E51	TH	7:15 PM-9:45 PM

ENGINEERING/SCIENCE TRANSFER

EGR-103	COMPUTER APPLICATIONS IN ENGINEERING	3 CREDITS
D01	M/W/F	1:25 PM-2:15 PM
EGR-103L	**LAB:COMPUTER APPLICATIONS IN ENGINEERING**	**1 CREDIT**
D01	W	2:30 PM-5:00 PM
D02	M	2:30 PM-5:00 PM
EGR-111	**INTRO MATERIALS SCIENCE & ENGINEERING**	**3 CREDITS**
D01	T/TH	8:00 AM-9:15 AM
EGR-121	**MECHANICS 1**	**3 CREDITS**
D01	T/TH	9:30 AM-10:45 AM
EGR-221	**CIRCUIT ANALYSIS I**	**3 CREDITS**
D01	T	8:00 AM-9:15 AM
D01	TH	8:00 AM-9:15 AM
EGR-225	**LAB: CIRCUIT ANALYSIS 1**	**1 CREDIT**
D01	M	1:35 PM-4:05 PM
EGR-229	**ENGINEERING THERMODYNAMICS 1**	**3 CREDITS**
D01	M/W/F	9:05 AM-9:55 AM

ENGLISH

DRG-091	READING LEVEL 1	3 CREDITS
D01	M/W/F	9:05 AM-9:55 AM
D02	M/W/F	10:10 AM-11:00 AM
D03	M/W/F	11:15 AM-12:05 PM
D04	T/TH	9:30 AM-10:45 AM
D05	T/TH	11:00 AM-12:15 PM
E51	M	6:00 PM-9:00 PM
E81	Online	
DRG-092	**READING LEVEL 2**	**3 CREDITS**
D01	M/W/F	10:10 AM-11:00 AM
D02	M/W/F	11:15 AM-12:05 PM
D03	T/TH	9:30 AM-10:45 AM
D04	T/TH	11:00 AM-12:15 PM
D05	T/TH	12:30 PM-1:45 PM
D80	Online	
E54	TH	6:00 PM-9:00 PM
DWT-099	**REVIEW FOR COLLEGE WRITING**	**3 CREDITS**
D01	M/W/F	10:10 AM-11:00 AM
D01	M/W/F	9:05 AM-9:55 AM 7-week Session 1
D01	T/TH	9:30 AM-10:45 AM 7-week Session 1
D02	M/W/F	11:15 AM-12:05 PM
D03	T/TH	9:30 AM-10:45 AM
D04	T/TH	11:00 AM-12:15 PM
D05	T/TH	12:30 PM-1:45 PM
D06	T/TH	2:00 PM-3:15 PM
D08	M/W/F	9:05 AM-9:55 AM
D10	M/W/F	10:10 AM-11:00 AM
D11	M/W/F	11:15 AM-12:05 PM
D11	Hybrid/T/TH	11:00 AM-12:15 PM 7-week Session 2
D13	T/TH	8:00 AM-9:15 AM
D14	T/TH	9:30 AM-10:45 AM
D15	T/TH	11:00 AM-12:15 PM
D16	T/TH	12:30 PM-1:45 PM
E52	T	5:00 PM-8:00 PM
E54	TH	5:00 PM-8:00 PM
E80	Online	
ENG-101	**ENGLISH COMPOSITION 1**	**3 CREDITS**
D01	M/W/F M/W/F	10:10 AM-11:00 AM 11:15 AM-12:05 PM 7-week Session 1
D01	M/W/F	9:05 AM-9:55 AM
D02	M/W/F	10:10 AM-11:00 AM
D02	Hybrid/T/TH	9:30 AM-10:45 AM 7-week Session 1
D03	T/TH	8:00 AM-9:15 AM
D04	T/TH	9:30 AM-10:45 AM
D05	T/TH	11:00 AM-12:15 PM
D06	T/TH	12:30 PM-1:45 PM
D07	M/W/F	8:00 AM-8:50 AM
D08	M/W/F	9:05 AM-9:55 AM
D09	M/W/F	10:10 AM-11:00 AM
D10	M/W/F	10:10 AM-11:00 AM
D11	M/W/F	9:05 AM-9:55 AM 7-week Session 2
D11	T/TH	8:00 AM-9:15 AM

Credit Course Schedule

D11	T/TH	9:30 AM-10:45 AM 7-week Session 2
D12	T/TH	9:30 AM-10:45 AM
D12	Hybrid/T/TH	9:30 AM-10:45 AM 7-week Session 2
D13	T/TH	11:00 AM-12:15 PM
D14	T/TH	12:30 PM-1:45 PM
D15	M/W/F	8:00 AM-8:50 AM
D16	M/W/F	9:05 AM-9:55 AM
D17	M/W/F	9:05 AM-9:55 AM
D18	M/W/F	10:10 AM-11:00 AM
D19	M/W/F	11:15 AM-12:05 PM
D20	M/W/F	1:35 PM-2:25 PM
D21	T/TH	8:00 AM-9:15 AM
D22	T/TH	11:00 AM-12:15 PM
D24	T/TH	12:30 PM-1:45 PM
E51	M	6:00 PM-9:00 PM
E52	T	5:00 PM-8:00 PM
E52	Hybrid/T	6:00 PM-8:45 PM 7-week Session 1
E53	W	6:00 PM-9:00 PM
E54	TH	6:00 PM-9:00 PM
E80	Online	7-week Session 1
E81	Online	
E83	Online	
E84	Online	
E86	Online	
E87	Online	

ENG-101H HONORS ENGLISH COMPOSITION 1 3 CREDITS

D01	T/TH	12:30 PM-1:45 PM
E80	Online	

ENG-102 ENGLISH COMPOSITION 2 3 CREDITS

D01	M/W/F	8:00 AM-8:50 AM
D01	Hybrid/T/TH	11:00 AM-12:15 PM 7-week Session 1
D02	M/W/F	9:05 AM-9:55 AM
D03	M/W/F	10:10 AM-11:00 AM
D04	Hybrid/M/W	10:10 AM-11:00 AM
D05	Hybrid/M/W	11:15 AM-12:05 PM
D06	M/W/F	1:35 PM-2:25 PM
D07	M/W/F	1:35 PM-2:25 PM
D08	T/TH	8:00 AM-9:15 AM
D09	T/TH	8:00 AM-9:15 AM
D10	T/TH	9:30 AM-10:45 AM
D11	M/W/F	10:10 AM-11:00 AM 7-week Session 2
D11	M/W/F	11:15 PM-12:05 PM 7-week Session 2
D11	T/TH	11:00 AM-12:15 PM
D12	T/TH	11:00 AM-12:15 PM
D12	Hybrid/T/TH	9:30 AM-10:45 AM 7-week Session 2
D13	T/TH	12:30 PM-1:45 PM
D14	T/TH	2:00 PM-3:15 PM
D80	Online	
D84	Online	
E52	T	6:00 PM-9:00 PM
E52	Hybrid/T	6:00 PM-8:45 PM 7-week Session 2
E54	TH	6:00 PM-9:00 PM
E82	Online	
E82	Online	7-week Session 2
E84	Online	
E85	Online	

ENG-102H HONORS ENGLISH COMPOSITION 2 3 CREDITS

D01	T/TH	9:30 AM-10:45 AM

ENG-104 TECHNICAL REPORT WRITING 3 CREDITS

D01	M/W/F	10:10 AM-11:00 AM
D02	T/TH	11:00 AM-12:15 PM
E52	T	6:00 PM-9:00 PM
E80	Online	

ENG-106 WRITING FOR STAGE AND FILM 3 CREDITS

D01	M/W/F	10:10 AM-11:00 AM

ENG-107 INTRODUCTION TO CREATIVE WRITING 3 CREDITS

D80	Online	

ENG-110 ENGLISH COMPOSITION 2: JOURNALISM 3 CREDITS

D01	T/TH	11:00 AM-12:15 PM

ENG-210 AMERICAN LITERATURE: 1620 - 1860 3 CREDITS

D01	T/TH	11:00 AM-12:15 PM

ENG-211 AMERICAN LITERATURE: 1860 - PRESENT 3 CREDITS

D80	Online	

ENG-225 CHILDREN'S LITERATURE 3 CREDITS

D01	M/W/F	9:05 AM-9:55 AM

ENG-226 MAGIC IN LITERATURE 3 CREDITS

D80	Online	

ENG-227 MODERN HORROR 3 CREDITS

D01	M/W/F	11:15 AM-12:05 PM

ENG-240 SEX & SEXUALITY IN WESTERN LITERATURE 3 CREDITS

D80	Online	

ENG-245 NON-WESTERN LITERARY VOICES 3 CREDITS

E54	TH	5:00 PM-8:00 PM

ENGLISH AS A SECOND LANGUAGE

ESL-084 INTERMEDIATE ESL GRAMMAR 3 CREDITS

E54	TH	6:00 PM-9:00 PM

ESL-086 INTERMEDIATE ESL WRITING 3 CREDITS

E53	W	6:00 PM-9:00 PM

Credit Course Schedule

ESL-088	**INTERMEDIATE ESL READING**	**3 CREDITS**
E52	T	6:00 PM-9:00 PM
ESL-094	**ADVANCED ESL GRAMMAR**	**3 CREDITS**
E53	W	6:00 PM-9:00 PM
ESL-096	**ADVANCED ESL WRITING**	**3 CREDITS**
E51	M	6:00 PM-9:00 PM
ESL-098	**ADVANCED ESL READING**	**3 CREDITS**
E52	T	6:00 PM-9:00 PM

FIRE PROTECTION & SAFETY TECHNOLOGY

FST-101	**FIRE PROTECTION & FIRE PREVENTION**	**4 CREDITS**
E90	T	6:00 PM-9:45 PM
FST-110	**BUILDING CONSTRUCTION**	**3 CREDITS**
E90	M	6:15 PM-9:15 PM
FST-131	**ADVANCED PROTECTION SYSTEMS**	**3 CREDITS**
E90	TH	6:15 PM-9:15 PM
FST-220	**INTRO TO FIRE INVESTIGATION**	**3 CREDITS**
E51	TH	6:00 PM-9:00 PM
FST-230	**HAZARDOUS MATERIALS**	**3 CREDITS**
E90	W	6:15 PM-9:15 PM

FRENCH

FRE-101	**ELEMENTARY FRENCH 1**	**3 CREDITS**
D01	T/TH	9:30 AM-10:45 AM
FRE-102	**ELEMENTARY FRENCH 2**	**3 CREDITS**
D01	T/TH	11:00 AM-12:15 PM

GRAPHIC COMMUNICATION & PHOTOGRAPHY

GAT-122	**DIGITAL WORKFLOW**	**2 CREDITS**
D01	M/W	8:00 AM-8:50 AM
GAT-122L	**LAB: DIGITAL WORKFLOW**	**1 CREDIT**
D01	T	8:00 AM-10:45 AM
GAT-125	**TYPOGRAPHY AND LAYOUT DESIGN**	**2 CREDITS**
D01	M/W	10:10 AM-11:00 AM
GAT-125L	**LAB: TYPOGRAPHY AND LAYOUT DESIGN**	**1 CREDIT**
D01	M	1:35 PM-4:10 PM
D02	TH	12:30 PM-3:00 PM
GAT-131	**GRAPHIC COMMUNICATIONS**	**2 CREDITS**
D01	M/W	11:15 AM-12:05 PM
GAT-131L	**LAB: GRAPHIC COMMUNICATIONS**	**1 CREDIT**
D01	T	2:00 PM-4:15 PM
GAT-135	**ADVERTISING AGENCY MANAGEMENT**	**3 CREDITS**
D01	T/TH	8:00 AM-9:15 AM
GAT-150	**INTRODUCTION TO PROFESSIONAL PHOTOGRAPHY**	**2 CREDITS**
D01	M/W	10:10 AM-11:00 AM
GAT-150L	**LAB: INTRO TO PROFESSIONAL PHOTOGRAPHY**	**1 CREDIT**
D01	M	1:35 PM-4:10 PM
GAT-151	**DIGITAL PHOTOGRAPHY/ STUDIO MODULE**	**2 CREDITS**
D01	F	8:00 AM-10:00 AM
GAT-155	**MACINTOSH OPERATING SYSTEMS**	**2 CREDITS**
D01	T/TH	9:30 AM-10:20 AM
GAT-155L	**LAB: MACINTOSH OPERATING SYSTEMS**	**1 CREDIT**
D01	T/TH	10:45 AM-12:15 PM
GAT-160	**INTRODUCTION TO WEB DESIGN**	**2 CREDITS**
D01	T/TH	2:00 PM-2:50 PM
E51	W	5:30 PM-7:10 PM
GAT-160L	**LAB: WEB SITE DESIGN & DEVELOPMENT**	**1 CREDIT**
D01	T/TH	3:00 PM-4:15 PM
E51	W	7:15 PM-9:45 PM
GAT-162	**DIGITAL IMAGING – PHOTOSHOP**	**2 CREDITS**
D01	M/W	9:05 AM-9:55 AM
GAT-162L	**LAB: DIGITAL IMAGING – PHOTOSHOP**	**1 CREDIT**
D01	TH	8:00 AM-10:45 AM
GAT-174	**AIRBRUSHING TECHNIQUES 1**	**2 CREDITS**
D01	M/W	10:10 AM-11:00 AM
GAT-174L	**LAB: AIRBRUSHING TECHNIQUES 1**	**1 CREDIT**
D01	M	1:35 PM-4:10 PM
GAT-220	**COLOR REPRODUCTION PROCESSES**	**2 CREDITS**
D01	M/W	10:10 AM-11:00 AM
GAT-220L	**LAB: COLOR REPRODUCTION PROCESSES**	**1 CREDIT**
D01	M	1:35 PM-4:20 PM
GAT-236	**PACKAGING DESIGN CONCEPTS**	**2 CREDITS**
D01	M/W	11:15 AM-12:05 PM
GAT-236L	**LAB: PACKAGING DESIGN CONCEPTS**	**1 CREDIT**
D01	TH	11:00 AM-1:45 PM
GAT-250	**PHOTOGRAPHIC ILLUSTRATION**	**2 CREDITS**
D01	T/TH	2:00 PM-2:50 PM
GAT-250L	**LAB: PHOTOGRAPHIC ILLUSTRATION**	**1 CREDIT**
D01	T/TH	3:00 PM-4:15 PM
GAT-252	**LOCATION PHOTOGRAPHY**	**2 CREDITS**
D01	T/TH	11:00 AM-12:15 PM

Credit Course Schedule

GAT-252L	LAB: LOCATION PHOTOGRAPHY	1 CREDIT
D01	T/TH	12:15 PM-1:30 PM

GAT-260	DIGITAL PRESS PRODUCTION	2 CREDITS
D01	M/W	9:05 AM-9:55 AM

GAT-260L	LAB: DIGITAL PRESS PRODUCTION	1 CREDIT
D01	W	1:35 PM-4:10 PM

GAT-263	DIGITAL ILLUSTRATION TECHNIQUES	2 CREDITS
D01	M/W	8:00 AM-8:50 AM

GAT-263L	LAB: DIGITAL ILLUSTRATION TECHNIQUES	1 CREDIT
D01	F	9:00 AM-11:45 AM

HEALTH & FITNESS

ATH-110	YOGA FOR HEALTH	1 CREDIT
D01	T	2:45 PM-4:00 PM

IND-115	HEALTH AND WELLNESS	3 CREDITS
D80	Online	

MLT-112	MEDICAL LABORATORY SAFETY (5 WEEKS)	1 CREDIT
D20	T/TH	8:00 AM-9:15 AM 7-week Session 1

PTA-101	INTRODUCTION TO PHYSICAL THERAPY	1 CREDIT
D10	M	1:35 PM-3:15 PM 7-week Session 1

HEALTH INFORMATION TECHNOLOGY

HIT-110	HEALTH OFFICE BASICS	3 CREDITS
D01	Hybrid/T/TH	9:30 AM-10:45 AM
E10	T	5:30 PM-8:30 PM

HIT-111	HEALTH OFFICE ADVANCED	3 CREDITS
D80	Online	

HIT-120	INTRODUCTION TO DIAGNOSTIC CODING 1	4 CREDITS
D01	M	11:15 AM-12:05 PM
D01	T/TH	11:00 AM-12:15 PM

HIT-122	INTRODUCTION TO PROCEDURAL CODING	3 CREDITS
D01	T/TH	9:30 AM-10:45 AM

HIT-125	HEALTH INFORMATION MANAGEMENT FOR HEALTH INFORMATION TECHNOLOGY STUDENTS	3 CREDITS
D01	M/W/F	10:10 AM-11:00 AM
E10	TH	5:30 PM-8:30 PM

HIT-130	ELECTRONIC HEALTH RECORDS	2 CREDITS
D80	Online	

HIT-155	HEALTH CLAIMS AND INSURANCE	2 CREDITS
D01	M/W	10:10 AM-11:00 AM

HIT-206	PREPARATION FOR THE CERTIFIED CODING ASSISTING EXAM	1 CREDIT
E80	Online	7-week Session 1

HIT-255	LAW AND ETHICS IN HEALTHCARE	3 CREDITS
E80	Online	

HIT-265	ADVANCED MEDICAL CODING	3 CREDITS
D01	M/W/F	9:05 AM-9:55 AM

HIT-267	PROFESSIONAL PRACTICE EXPERIENCE	3 CREDITS
D01	T/TH	8:00 AM-9:30 AM

HIT-269	RHIT EXAM PREP	1 CREDIT
D80	Online	

SMC-125	EMT BASIC	5 CREDITS
D01	M/W/TH	8:00 AM-10:00 AM
E30	M/W/TH	6:00 PM-8:00 PM

SMC-125L	LAB: EMT BASIC IN HEALTH CARE	2 CREDITS
D01	M/W/TH	10:00 AM-12:00 PM
E30	M/W/TH	8:00 PM-10:00 PM

SMC-161	STERILE PROCESSING TECHNICIAN	6 CREDITS
E30	M/T/W	5:00 PM-7:00 PM

SMC-161L	LAB: STERILE PROCESSING TECHNICIAN	0 CREDITS
E30	M/T/W	7:00 PM-9:00 PM
E31	M/T/W	7:00 PM-9:00 PM

HEALTH SCIENCE

HSC-110	COMMUNICATION & PROFESSIONALISM IN HEALTHCARE RESPONSIBILITIES	3 CREDITS
D01	M/W/F	9:05 AM-9:55 AM
D02	M/W/F	10:10 AM-11:00 AM
D03	M/W/F	11:15 AM-12:05 PM
D04	T/TH	9:30 AM-10:45 AM
E20	T/TH	5:30 PM-6:45 PM

HSC-150	PATIENT CARE & SAFETY RESPONSIBILITIES	2 CREDITS
D01	M/W/F	10:10 AM-11:00 AM
D02	T/TH	11:00 AM-12:15 PM

HSC-150L	LAB: PATIENT CARE & SAFETY RESPONSIBILITIES	1 CREDIT
D01	M	1:35 PM-3:15 PM
D02	W	1:35 PM-3:15 PM
D04	T	12:30 PM-2:10 PM
D05	TH	12:30 PM-2:10 PM

Credit Course Schedule

HISTORY

HIS-100	**SURVEY OF EARLY WESTERN CIVILIZATION**	**3 CREDITS**
D01	M/W/F	11:15 AM-12:05 PM
E81	Online	
HIS-101	**SURVEY OF MODERN WESTERN CIVILIZATION**	**3 CREDITS**
D01	T/TH	12:30 PM-1:45 PM
HIS-105	**CULTURAL GEOGRAPHY**	**3 CREDITS**
D01	T/TH	11:00 AM-12:15 PM
HIS-110	**SURVEY OF U.S. HISTORY & GOVERNMENT**	**3 CREDITS**
D01	T/TH	9:30 AM-10:45 AM
E52	T	6:00 PM-9:00 PM
E80	Online	7-week Session 1
E81	Online	
HIS-111	**SURVEY OF MODERN U.S. HISTORY**	**3 CREDITS**
D01	T/TH	9:30 AM-10:45 AM
D02	T/TH	11:00 AM-12:15 PM
E80	Online	
E80	Online	7-week Session 2
HIS-115	**INTRO TO AFRICAN AMERICAN HISTORY: COLONIAL – 1865**	**3 CREDITS**
D01	M/W/F M/W/F	10:10 AM-11:00 AM 11:15 AM-12:05 PM 7-week Session 2
HIS-125	**THE HOLOCAUST**	**3 CREDITS**
E54	TH	6:00 PM-9:00 PM
HIS-130	**WOMEN IN HISTORY**	**3 CREDITS**
D01	M/W/F	10:10 AM-11:00 AM
HIS-154	**SOCIAL CHANGE IN THE 1960S**	**3 CREDITS**
E80	Online	

HONORS COURSES

HNR-205	**THE COMIC SPIRIT**	**3 CREDITS**
D01	T/TH	11:00 AM-12:15 PM
HNR-209	**THE SCIENCE OF SEX & SEXUALITY**	**3 CREDITS**
D01	T/TH	12:30 PM-1:45 PM
HNR-211	**PROJECT MANAGEMENT**	**3 CREDITS**
D01	M/W/F	9:05 AM-9:55 AM
HNR-212	**DYSTOPIA: SCIENCE, FEAR & THE ARTS**	**3 CREDITS**
D01	M/W/F	11:15 AM-12:05 PM

LANDSCAPE DESIGN & MANAGEMENT

LAN-100	**PRINCIPLES OF HORTICULTURE**	**2 CREDITS**
D01	M/W	8:00 AM-8:50 AM
LAN-100L	**LAB: PRINCIPLES OF HORTICULTURE**	**1 CREDIT**
D01	M/W	1:35 PM-4:00 PM
LAN-110	**TREES IN LANDSCAPE**	**3 CREDITS**
D01	M/W	9:05 AM-9:55 AM
LAN-110L	**LAB: TREES IN LANDSCAPE**	**1 CREDIT**
D01	M/W	10:10 AM-12:05 PM
LAN-200	**SUSTAINABLE LANDSCAPE PRACTICES**	**2 CREDITS**
D01 12:30 PM-1:20 PM		T/TH
LAN-200L	**LAB: SUSTAINABLE LANDSCAPE PRACTICES**	**1 CREDIT**
D01	TH	1:30 PM-4:00 PM
LAN-210	**SHRUBS IN LANDSCAPE**	**3 CREDITS**
D01	M/W	9:05 AM-9:55 AM
LAN-210L	**LAB: SHRUBS IN LANDSCAPE**	**1 CREDIT**
D01	M/W	10:10 AM-12:05 PM
LAN-220	**LANDSCAPE DESIGN 1**	**1 CREDIT**
D01	M	1:35 PM-2:25 PM
LAN-220L	**LAB: LANDSCAPE DESIGN 1**	**2 CREDITS**
D01	M	2:40 PM-4:35 PM
LAN-220L	**LAB: LANDSCAPE DESIGN 1**	**2 CREDITS**
D01	W	1:35 PM-3:30 PM
LAN-225	**LANDSCAPE OPERATIONS**	**3 CREDITS**
D01	T/TH	9:30 AM-10:45 AM

MANAGEMENT

MGT-101	**PRINCIPLES OF MANAGEMENT**	**3 CREDITS**
D02	M/W/F	10:10 AM-11:00 AM
D03	M/W/F	11:15 AM-12:05 PM
D04	T/TH	11:00 AM-12:15 PM
D85	Online	
D86	Online	7-week Session 2
MGT-101	**PRINCIPLES OF MANAGEMENT**	**3 CREDITS**
E51	W	6:15 PM-9:15 PM
MGT-230	**BUSINESS ETHICS**	**3 CREDITS**
D01	M/W/F	10:10 AM-11:00 AM
MGT-260	**ORGANIZATIONAL BEHAVIOR**	**3 CREDITS**
D81	Online	
D82	Online	

Credit Course Schedule

MARKETING

MKT-101	PRINCIPLES OF MARKETING	3 CREDITS
D02	M/W/F	10:10 AM-11:00 AM
D03	T/TH	9:30 AM-10:45 AM
D82	Online	7-week Session 1
D83	Online	
E51	T	6:15 PM-9:15 PM

MKT-250	DIGITAL MARKETING	3 CREDITS
D80	Online	

MATHEMATICS

MAT-078	PRE-ALGEBRA	3 CREDITS
D01	M/W/F	8:00 AM-8:50 AM
D03	M/W/F	9:05 AM-9:55 AM
D07	M/W/F	10:10 AM-11:00 AM
D08	M/W/F	11:15 AM-12:05 PM
D09	T/TH	8:00 AM-9:15 AM
D12	T/TH	9:30 AM-10:45 AM
D14	T/TH	11:00 AM-12:15 PM
E52	M	6:00 PM-9:00 PM
E53	W	6:00 PM-9:00 PM
E54	T	6:15 PM-9:15 PM
E80	Online	
E82	Online	
E84	Online	

MAT-079	PRE-ALGEBRA FOR MATH SUCCESS	4 CREDITS
D01	M/W/F	10:10 AM-11:00 AM
D01	T/TH	11:00 AM-12:15 PM

MAT-087	ALGEBRA 1	3 CREDITS
D01	M/W/F	8:00 AM-8:50 AM
D01	T/TH T/TH	9:30 AM-10:45 AM 11:00 AM-12:15 PM 7-week Session 1
D01	T/TH T/TH	9:30 AM-10:45 AM 11:00 AM-12:15 PM 7-week Session 2
D03	M/W/F	9:05 AM-9:55 AM
D06	M/W/F	10:10 AM-11:00 AM
D11	M/W/F	11:15 AM-12:05 PM
D12	T/TH	8:00 AM-9:15 AM
D13	T/TH	9:30 AM-10:45 AM
D14	T/TH	9:30 AM-10:45 AM
D16	T/TH	11:00 AM-12:15 PM
D20	T/TH	12:30 PM-1:45 PM
E52	W	6:00 PM-9:00 PM
E53	T	6:15 PM-9:15 PM
E80	Online	
E81	Online	
E85	Online	

MAT-089	EXTENDED ALGEBRA 1	4 CREDITS
D01	M/W/F	9:05 AM-9:55 AM
D01	T/TH	9:30 AM-10:45 AM

MAT-095	ELEMENTS OF 3 CREDITS	
D01	M/W/F	11:15 AM-12:05 PM

MAT-097	ALGEBRA 2	3 CREDITS
D01	M/W/F	9:05 AM-9:55 AM
D03	M/W/F	10:10 AM-11:00 AM
D04	M/W/F	11:15 AM-12:05 PM
D06	T/TH	8:00 AM-9:15 AM
D07	T/TH	9:30 AM-10:45 AM
D10	T/TH	11:00 AM-12:15 PM
E52	T	6:00 PM-9:00 PM
E81	Online	
E84	Online	
E84	Online 7-week Session 2	

MAT-098	ALGEBRA 2 FOR STEM MAJORS	4 CREDITS
D01	Hybrid/M/W/F	11:15 AM-12:05 PM
E80	Online	

MAT-099	EXTENDED ALGEBRA 2	4 CREDITS
D02	M/W/F	9:05 AM-9:55 AM
D02	T/TH	9:30 AM-10:45 AM

MAT-100	CONTEMPORARY MATHEMATICAL APPLICATIONS	3 CREDITS
D01	T/TH	8:00 AM-9:15 AM
E80	Online	

MAT-101	MATH IN A MODERN SOCIETY	3 CREDITS
D01	M/W/F	11:15 AM-12:05 PM
E80	Online	

MAT-115	STATISTICS	3 CREDITS
D01	M/W/F	9:05 AM-9:55 AM
D02	M/W/F	10:10 AM-11:00 AM
D03	M/W/F	11:15 AM-12:05 PM
D04	M/W/F	8:00 AM-8:50 AM
D06	T/TH	8:00 AM-9:15 AM
D07	T/TH	9:30 AM-10:45 AM
D08	T/TH	12:30 PM-1:45 PM
D09	T/TH	11:00 AM-12:15 PM
D10	T/TH	11:00 AM-12:15 PM
E51	TH	6:00 PM-9:00 PM
E52	M	6:00 PM-9:00 PM
E80	Online	
E81	Online	
E84	Online	
E84	Online	7-week Session 2

MAT-115H	HONORS STATISTICS 1	3 CREDITS
D01	T/TH	9:30 AM-10:45 AM

Credit Course Schedule

MAT-122	APPLIED MATHEMATICS 1	3 CREDITS
E80	Online	

MAT-124	TECHNICAL MATH 1	4 CREDITS
D01	M/W/F	7:40 AM-8:50 AM
D02	M/W/F	8:45 AM-9:55 AM
D03	T/TH	12:30 PM-2:10 PM
E52	M	5:45 PM-9:30 PM
E80	Online	

MAT-125	TECHNICAL MATH 2	4 CREDITS
D02	T/TH	12:30 PM-2:10 PM
E51	M	5:45 PM-9:30 PM
E80	Online	

MAT-127	CALCULUS FOR BUSINESS, LIFE AND SOCIAL SCIENCE 1	3 CREDITS
D01	M/W/F	10:10 AM-11:00 AM
E80	Online	

MAT-130	PRE-CALCULUS 4 CREDITS	
D01	Hybrid/M/W/F	7:40 AM-8:50 AM

MAT-131	CALCULUS 1	4 CREDITS
D02	M/W/F	10:10 AM-11:00 AM
D02	T/TH	11:00 AM-12:15 PM
E51	MTH	6:00 PM-9:00 PM

MAT-132	CALCULUS 2	4 CREDITS
D01	M/W/F	10:10 AM-11:00 AM
D01	T/TH	12:30 PM-1:45 PM

MAT-220	DISCRETE STRUCTURES	4 CREDITS
E80	Online	

MAT-233	CALCULUS III	4 CREDITS
D01	M/W/F	11:15 AM-12:05 PM
D01	T/TH	12:30 PM-1:45 PM
E80	Online	

MAT-240	LINEAR ALGEBRA	3 CREDITS
E80	Online	

MAT-240L	LAB: LINEAR ALGEBRA	1 CREDIT
E80	Online	

MAT-255	DIFFERENTIAL EQUATIONS	4 CREDITS
E81	Online	

MECHANICAL ENGINEERING TECHNOLOGY

MET-100	ESSENTIALS FOR MANUFACTURING TECHNICIANS	3 CREDITS
D01	T	8:00 AM-10:30 AM
DO2	W	1:30 PM-4:00 PM

MET-101	INTRODUCTION TO ENGINEERING TECHNOLOGY	3 CREDITS
D01	M	1:30 PM-4:00 PM
D02	T/TH	1:20 PM-2:35 PM
E51	M	6:00 PM-8:30 PM

MET-120	METROLOGY & GEOMETRICS	2 CREDITS
D01	T	11:00 AM-12:40 PM
E51	M	5:30 PM-7:10 PM

MET-120L	LAB: METROLOGY & GEOMETRICS	1 CREDIT
D01	M	1:30 PM-4:00 PM
D02	F	9:00 AM-11:30 AM
E51	M	7:15 PM-9:45 PM

MET-132	CAM APPLICATIONS 1	3 CREDITS
E51	M	5:00 PM-8:50 PM

MET-132L	LAB: CAM APPLICATIONS 1	1 CREDIT
E51	Hybrid/M	8:55 PM-9:45 PM

MET-141	MATERIALS SCIENCE	3 CREDITS
D02	T	8:00 AM-10:30 AM
D03	F	9:00 AM-11:30 AM

MET-142	MANUFACTURING PROCESSES	3 CREDITS
D01	M	1:30 PM-4:00 PM
D02	F	9:00 AM-11:30 AM

MET-150	FUNDAMENTALS OF CNC	2 CREDITS
D04	T	1:20 PM-3:00 PM
D05	T	11:00 AM-12:40 PM
E51	T	5:30 PM-7:10 PM
E52	W	5:30 PM-7:10 PM

MET-150L	LAB: FUNDAMENTALS OF CNC	1 CREDIT
D03	M	1:30 PM-4:15 PM
D04	W	1:30 PM-4:15 PM
D05	M	9:00 AM-11:45 AM
E51	T	7:15 PM-9:45 PM
E52	W	7:15 PM-9:45 PM

MET-152	INTRODUCTION TO CNC MACHINING TECHNOLOGY	1 CREDIT
D01	TH	11:55 AM-12:45 PM

MET-152L	LAB: INTRODUCTION TO CNC MACHINING TECHNOLOGY	2 CREDITS
D01	T/TH	1:00 PM-3:30 PM

MET-160	ENGINEERING GRAPHICS WITH SOLID WORKS	2 CREDITS
D01	M	9:00 AM-10:40 AM
D02	T	8:00 AM-9:40 AM
E51	TH	5:30 PM-7:10 PM

Credit Course Schedule

MET-160L	LAB: ENGINEERING GRAPHICS WITH SOLID WORKS	1 CREDIT
D01	W	9:00 AM-11:30 AM
D02	TH	8:00 AM-10:30 AM
E51	TH	7:15 PM-9:45 PM

MET-161	SOLID MODELING FOR MECHANICAL DESIGN 1	3 CREDITS
D01	T	1:00 PM-2:25 PM
E51	W	5:30 PM-7:40 PM

MET-161L	LAB: SOLID MODELING FOR MECHANICAL DESIGN 1	1 CREDIT
D01	TH	1:00 PM-3:30 PM
E51	W	7:45 PM-9:45 PM

MET-224	STATICS AND STRENGTH OF MATERIALS	4 CREDITS
E51	TH	6:00 PM-9:30 PM

MET-227	QUALITY CONCEPTS	2 CREDITS
E51	M	5:30 PM-7:10 PM

MET-227L	LAB: QUALITY CONCEPT	1 CREDIT
E51	M	7:15 PM-9:45 PM

MET-230	CAM 2	3 CREDITS
D01	T	8:00 AM-10:45 AM
D02	M	9:00 AM-11:45 AM
D03	W	9:00 AM-11:45 AM

MET-230L	LAB: CAM 2	1 CREDIT
D01	TH	8:00 AM-10:45 AM
D02	W	9:00 AM-11:45 AM
D03	M	9:00 AM-11:45 AM

MET-261	SOLID MODELING FOR MECHANICAL DESIGN 2	3 CREDITS
D01	M	9:00 AM-11:30 AM
D02	T	8:00 AM-10:30 AM

MET-261L	LAB: SOLID MODELING FOR MECHANICAL DESIGN 2	1 CREDIT
D01	W	9:00 AM-11:30 AM
D02	TH	8:00 AM-10:30 AM

MET-267	ADVANCED ENGINEERING APPLICATIONS	2 CREDITS
E51	M	5:30 PM-7:10 PM

MET-267L	LAB: ADVANCED ENGINEERING APPLICATIONS	1 CREDIT
E51	M	7:15 PM-9:45 PM

MEDICAL ASSISTING

MED-100	MEDICAL TERMINOLOGY 1	3 CREDITS
D01	M/W/F	9:05 AM-9:55 AM
D02	M/W/F	10:10 AM-11:00 AM
D03	M/W/F	11:15 AM-12:05 PM
D04	T/TH	9:30 AM-10:45 AM
D05	T/TH	11:00 AM-12:15 PM
D06	T/TH	12:30 PM-1:45 PM
D07	M/W/F	8:00 AM-8:50 AM
E80	Online	
E81	Online	

MED-102	HUMAN BODY IN HEALTH AND DISEASE	3 CREDITS
D80	Online	

MED-105	MEDICAL OFFICE ADMINISTRATION I	3 CREDITS
D00	T	1:45 PM-2:30 PM
D01	T	12:30 PM-1:45 PM
D01	W	10:10 AM-11:25 AM
D02	F	10:10 AM-11:25 AM
D02	T	12:30 PM-1:45 PM

MED-115	PHARMACOLOGY	3 CREDITS
E80	Online	

MUSIC

MUS-101	MUSIC APPRECIATION 1	3 CREDITS
D01	M/W/F	9:05 AM-9:55 AM
E80	Online	

MUS-120	HISTORY OF MUSIC	3 CREDITS
E80	Online	

MUS-122	HISTORY OF ROCK	3 CREDITS
E80	Online	

MUS-130	INTRODUCTION TO PIANO	3 CREDITS
D01	M/W/F	10:10 AM-11:00 AM

MUS-140	VOICE	3 CREDITS
D01	M/W/F	11:15 AM-12:05 PM

OFFICE INFORMATION TECHNOLOGY

OIT-100	BASIC KEYBOARDING SKILLS	1 CREDIT
D90	M/W	11:15 AM-12:05 PM 7-week Session 1
D91	M/W	11:15 AM-12:05 PM 7-week Session 2
E80	Online	7-week Session 1
E81	Online	7-week Session 2

OIT-101	KEYBOARDING	3 CREDITS
D01	Hybrid/T	9:30 AM-10:45 AM

OIT-111	COMMUNICATIONS/EDITING 2	3 CREDITS
D01	M/W/F	11:15 AM-12:05 PM

Credit Course Schedule

OIT-130	**OFFICE MANAGEMENT PROCEDURES & THEORY**	**3 CREDITS**
D01	Hybrid/TH	9:30 AM-10:45 AM
OIT-140	**CAREER PREPARATION/SOFT SKILLS**	**1 CREDIT**
D90	M/W	1:35 PM-2:25 PM 7-week Session 1

OPTICS & PHOTONICS

LEO-100	**LAB AND LASER SAFETY**	**1 CREDIT**
D01	M	9:05 AM-9:55 AM
LEO-110	**INTRO TO OPTICS AND PHOTONICS**	**3 CREDITS**
D01	W	9:05 AM-11:35 AM
LEO-235	**WAVE OPTICS**	**2 CREDITS**
D01	TH	8:00 AM-9:20 AM
LEO-235L	**LAB: WAVE OPTICS**	**1 CREDIT**
D01	TH	9:30 AM-12:00 PM
LEO-250	**SENIOR PROJECT RESEARCH**	**1 CREDIT**
D01	T	9:30 AM-10:20 AM
LEO-250L	**LAB: SENIOR PROJECT RESEARCH**	**1 CREDIT**
D01	T	10:30 AM-1:00 PM
LEO-260	**INDUSTRIAL LASER APPLICATIONS**	**2 CREDITS**
D01	M	10:10 AM-12:05 PM
LEO-260L	**LAB: INDUSTRIAL LASER APPLICATIONS**	**1 CREDIT**
D01	M	1:35 PM-4:05 PM

PHILOSOPHY

PHL-101	**INTRODUCTION TO PHILOSOPHY**	**3 CREDITS**
D02	T/TH	9:30 AM-10:45 AM
D03	T/TH	11:00 AM-12:15 PM
E51	M	6:00 PM-9:00 PM
PHL-110	**WORLD RELIGIONS**	**3 CREDITS**
E80	Online	
E81	Online	
PHL-120	**CRITICAL THINKING**	**3 CREDITS**
D01	M/W/F	9:05 AM-9:55 AM
D02	M/W/F	11:15 AM-12:05 PM
D07	M/W/F	9:05 AM-9:55 AM
D08	M/W/F	10:10 AM-11:00 AM
D09	M/W/F	11:15 AM-12:05 PM
D10	M/W/F	11:15 AM-12:05 PM
D11	T/TH	9:30 AM-10:45 AM
D12	T/TH	11:00 AM-12:15 PM
D13	T/TH	12:30 PM-1:45 PM
D14	T/TH	2:00 PM-3:15 PM
E53	W	6:00 PM-9:00 PM
PHL-220	**ETHICS IN CRIMINAL JUSTICE**	**3 CREDITS**
E80	Online	
PHL-255	**ETHICS IN SOCIAL WORK & HUMAN SERVICES**	**3 CREDITS**
D01	M/W/F	9:05 AM-9:55 AM
E80	Online	

PHYSICS

PHY-105	**PHYSICAL SCIENCE 1**	**3 CREDITS**
D01	T/TH	11:00 AM-12:15 PM
PHY-105L	**LAB: PHYSICAL SCIENCE 1**	**1 CREDIT**
D01	TH	2:00 PM-4:30 PM
PHY-107	**THE SCIENCE OF CLIMATE CHANGE**	**3 CREDITS**
D01	T/TH	9:30 AM-10:45 AM
PHY-116	**PHYSICS OF GREEN ENERGY**	**3 CREDITS**
E80	Online	
PHY-116L	**LAB: PHYSICS OF GREEN ENERGY**	**1 CREDIT**
E80	W	5:30 PM-8:30 PM
E81	W	1:35 PM-4:05 PM
PHY-213	**RADIOLOGIC PHYSICS 1**	**3 CREDITS**
D01	T/TH	12:30 PM-1:45 PM
PHY-213L	**LAB: RADIOLOGIC PHYSICS 1**	**1 CREDIT**
D01	T	2:00 PM-4:30 PM
PHY-221	**PHYSICS 1**	**3 CREDITS**
D02	M/W/F	10:10 AM-11:00 AM
E51	T	6:00 PM-9:00 PM
E52	Online	
PHY-221L	**LAB: PHYSICS 1**	**1 CREDIT**
D01	M	1:35 PM-4:05 PM
D02	W	1:35 PM-4:05 PM
E51	TH	6:00 PM-9:00 PM
E52	T	2:00 PM-4:30 PM
PHY-231	**CLASSICAL PHYSICS 1**	**3 CREDITS**
D01	M/W/F	9:05 AM-9:55 AM
D01	W	1:35 PM-2:25 PM
PHY-231L	**LAB: CLASSICAL PHYSICS 1**	**1 CREDIT**
D01	T	2:00 PM-4:30 PM
D02	TH	2:00 PM-4:30 PM
PHY-232	**CLASSICAL PHYSICS 2**	**3 CREDITS**
D01	F	1:35 PM-2:25 PM
D01	M/W/F	10:10 AM-11:00 AM
E55	T	5:30 PM-9:00 PM
PHY-232L	**LAB: CLASSICAL PHYSICS 2**	**1 CREDIT**
D01	T	2:00 PM-4:30 PM
E55	TH	6:00 PM-9:00 PM

Credit Course Schedule

POLITICAL SCIENCE

PSC-101	AMERICAN GOVERNMENT & POLITICS I	3 CREDITS
D01	M/W/F	9:05 AM-9:55 AM

PSC-102	STATE AND MUNICIPAL GOVERNMENT	3 CREDITS
D01	T/TH	11:00 AM-12:15 PM

PSYCHOLOGY

PSY-101	GENERAL PSYCHOLOGY	3 CREDITS
D01	M/W/F	8:00 AM-8:50 AM
D01	Hybrid/M/W/F	1:35 PM-2:25 PM 7-week Session 1
D02	M/W/F	9:05 AM-9:55 AM
D03	M/W/F	9:05 AM-9:55 AM
D04	M/W/F	10:10 AM-11:00 AM
D05	M/W/F	1:35 PM-2:25 PM
D06	M/W/F	2:40 PM-3:30 PM
D07	T/TH	8:00 AM-9:15 AM
D08	T/TH	9:30 AM-10:45 AM
D09	T/TH	9:30 AM-10:45 AM
D10	T/TH	11:00 AM-12:15 PM
D11	T/TH	12:30 PM-1:45 PM
D12	T/TH	2:00 PM-3:15 PM
E50	W	4:00 PM-7:00 PM
E51	M	6:00 PM-9:00 PM
E54	TH	6:00 PM-9:00 PM
E65	S	9:00 AM-12:00 PM
E81	Online	
E82	Online	
E84	Online	
E85	Online	

PSY-101H	HONORS GENERAL PSYCHOLOGY	3 CREDITS
D01	Hybrid/M/W/F	1:35 PM-2:25 PM 7-week Session 2

PSY-200	CHILD PSYCHOLOGY	3 CREDITS
D01	T/TH	11:00 AM-12:15 PM
E52	T	6:00 PM-9:00 PM

PSY-210	LIFESPAN HUMAN GROWTH & DEVELOPMENT	3 CREDITS
D01	M/W/F	10:10 AM-11:00 AM
D02	M/W/F	11:15 AM-12:05 PM
E51	M	6:00 PM-9:00 PM
E54	TH	5:30 PM-8:30 PM
E80	Online	
E81	Online	
E81	Online	7-week Session 2

PSY-215	THEORIES OF PERSONALITY	3 CREDITS
E80	Online	

PSY-220	ADOLESCENT PSYCHOLOGY	3 CREDITS
D01	T/TH	12:30 PM-1:45 PM

PSY-222	GERONTOLOGY	3 CREDITS
D01	M/W/F	9:05 AM-9:55 AM

PSY-225	COGNITIVE PSYCHOLOGY: LEARNING & MEMORY	3 CREDITS
E80	Online	

PSY-230	PRINCIPLES OF NORMAL/ ABNORMAL BEHAVIOR	3 CREDITS
D01	T/TH	9:30 AM-10:45 AM
D02	T/TH	11:00 AM-12:15 PM
E54	TH	6:00 PM-9:00 PM
E81	Online	

PSY-240	INTRO TO FORENSIC PSYCHOLOGY	3 CREDITS
E80	Online	

SIGN LANGUAGE

ASL-101	AMERICAN SIGN LANGUAGE 1	3 CREDITS
D02	T/TH	9:30 AM-10:45 AM
E80	Online	

ASL-102	AMERICAN SIGN LANGUAGE 2	3 CREDITS
D02	T/TH	11:00 AM-12:15 PM

SOCIOLOGY

SOC-101	INTRODUCTION TO SOCIOLOGY	3 CREDITS
D01	M/W/F	8:00 AM-8:50 AM
D02	M/W/F	9:05 AM-9:55 AM
D03	M/W/F	10:10 AM-11:00 AM
D04	M/W/F	10:10 AM-11:00 AM
D05	M/W/F	11:15 AM-12:05 PM
D06	T/TH	8:00 AM-9:15 AM
D07	T/TH	9:30 AM-10:45 AM
D08	T/TH	9:30 AM-10:45 AM
D09	T/TH	11:00 AM-12:15 PM
D11	Hybrid/M/W/F	1:35 PM-2:25 PM 7-week Session 2
D80	Online	
E51	M	6:00 PM-9:00 PM
E52	T	6:00 PM-9:00 PM
E53	W	6:00 PM-9:00 PM
E65	S	9:00 AM-12:00 PM
E81	Online	
E83	Online	

SOC-101H	HONORS INTRODUCTION TO SOCIOLOGY	3 CREDITS
D01	Hybrid/M/W/F	1:35 PM-2:25 PM 7-week Session 1

Credit Course Schedule

SOC-102	INTRO TO SOCIAL WORK	3 CREDITS
D01	M/W/F	11:15 AM-12:05 PM
E65	S	9:00 AM-12:00 PM
SOC-200	**SOCIAL PROBLEMS**	**3 CREDITS**
E81	Online	
SOC-210	**RACE AND SOCIETY**	**3 CREDITS**
D80	Online	
SOC-220	**URBAN SOCIOLOGY**	**3 CREDITS**
D01	M/W/F	11:15 AM-12:05 PM

SPANISH

SPN-101	ELEMENTARY SPANISH 1	3 CREDITS
D01	M/W/F	9:05 AM-9:55 AM
D03	M/W/F	10:10 AM-11:00 AM
D07	T/TH	9:30 AM-10:45 AM
E51	M	6:00 PM-9:00 PM
SPN-102	**ELEMENTARY SPANISH 2**	**3 CREDITS**
D02	M/W/F	11:15 AM-12:05 PM
SPN-121	**CONVERSATIONAL SPANISH – MEDICAL PERSONNEL**	**3 CREDITS**
D02	T/TH	11:00 AM-12:15 PM
E54	TH	5:00 PM-8:00 PM
SPN-125	**SPANISH FOR PUBLIC SERVICE**	**3 CREDITS**
D01	T/TH	12:30 PM-1:45 PM
SPN-210	**PROFESSIONAL WRITING IN SPANISH**	**3 CREDITS**
E80	Online	

SPEECH

ENG-105	FUNDAMENTALS OF ORAL COMMUNICATION	3 CREDITS
D01	M/W/F	9:05 AM-9:55 AM
D02	HybridM/W	10:10 AM-11:00 AM
D03	M/W/F	11:15 AM-12:05 PM
D04	T/TH	9:30 AM-10:45 AM
D11	Hybrid/T/TH	11:00 AM-12:15 PM 7-week Session 2
D50	T	4:00 PM-7:00 PM
E52	T	6:00 PM-9:00 PM

THEATER

THR-101	FUNDAMENTALS OF ACTING	3 CREDITS
D01	T/TH	9:30 AM-10:45 AM
THR-211	**COLLEGE THEATRE WORKSHOP 1**	**3 CREDITS**
D01	T/TH	12:30 PM-1:45 PM

PREREQUISITE: previous course required

COREQUISITE: course or lab required at same time as this one.

ACCOUNTING

ACC-101 ACCOUNTING 1 4 CREDITS

An introductory course designed to present to the student the concepts and principles of financial accounting. The fundamental techniques of the basic accounting system and the accounting cycle for service and merchandise concerns are examined. Additionally, topics such as specialized journals, cash controls, Sarbanes-Oxley Act, accounts and notes receivable, inventory, property, plant and equipment are discussed. PREREQUISITE: Student must place into DRG-092 and MAT-073 or higher level.

ACC-102 ACCOUNTING 2 4 CREDITS

This course is designed to complete the study of financial accounting. The course will cover a limited discussion of partnerships, and a thorough coverage of corporations including formation, issuance of stock, dividend and related topics. Corporate bonds issues, investments, the statement of cash flow, liabilities, and statement analysis are other topics discussed in the course. Budgeting will be examined. PREREQUISITE: ACC-101 (minimum grade C-).

ACC-106 FINANCIAL ACCOUNTING 4 CREDITS

An introductory course designed to present to the student the concepts and principles of financial accounting. The fundamental techniques of the basic accounting system and the accounting cycle for service and merchandise concerns are examined. Additionally, topics such as cash controls, Sarbanes-Oxley Act, accounts and notes receivable, inventory, property, plant and equipment, current and long-term liabilities, and the statement of cash flow are discussed.

ACC-260 MANAGERIAL ACCOUNTING 3 CREDITS

This course provides an introduction to the internal uses of accounting for management planning and control. The point of view will be on the use rather than the construction of accounting data. Areas of study include cost concepts and techniques, cost volume-profit analysis, master budgeting, relevant cost analysis, and capital budgeting. In addition, one hour a week will be spent completing managerial problems using spreadsheet applications. PREREQUISITE: ACC-102 or ACC-106 (minimum grade C-).

ANTHROPOLOGY

SOC-105 INTRODUCTION TO ANTHROPOLOGY 3 CREDITS

A general introduction to social and cultural anthropology which will explore among the diverse cultures of the world some of the possible variations in technology, economics, social and political organization, art, religion, and ideology. Each year the world grows smaller in each area of communication, transportation, and general economic interdependence. However, an understanding of cultural differences among the people of the world is often lacking. Cultural anthropology provides a systematic description and comparison of the ways of life of groups of people throughout the world. An appreciation of the solutions to human problems developed by other cultures allows not only greater perception of our own way of life, but also of the values and goals of others. The fundamental objective of this course is to provide insight into various ways that people respond to basic needs. PREREQUISITE: DRG-091 (minimum grade C-) or placement at higher level on the reading placement test.

ARABIC

ARB-101 ELEMENTARY ARABIC 1 3 CREDITS

This course introduces students to the Arabic language. Students will learn the Arabic alphabet and phonetic and writing systems. The basics of reading, writing, listening comprehension and speaking will be covered. Students will acquire common vocabulary, including greetings and other expressions in this class. Students will also explore the culture and customs of the Arabic-speaking countries and their influences worldwide. Classes are conducted in Arabic as much as possible. PREREQUISITE: DWT-099 (minimum grade of C-) or placement at ENG-101.

ARCHITECTURE & BUILDING TECHNOLOGY

ABT-125 ARCHITECTURAL CAD 2 CREDITS (+1 LAB CREDIT)

This course is an introduction to the dynamic world of Computer Aided Design (CAD) using AutoCAD. Students will learn the terminology, capabilities, and operation of this powerful design tool. Students will develop a portfolio of architectural drawings, including floor plans, elevations, sections and details for a light commercial building. Drafting fundamentals and the use of orthographic projection will be reviewed. Students will also be introduced to PowerPoint and learn to use this software to create professional quality presentations; COREQUISITE: ABT-125L.

ABT-150 ARCH DESIGN 1: DESIGN PROCESS 2D 2 CREDITS (+2 LAB CREDITS)

An introduction to architectural design and technical Drawing techniques used to develop working drawings for Architectural projects. This course is the cornerstone course for all future architectural course work. Emphasis is on Residential design/ construction and will use orthographic Projection (multi-view drawings) for floor plans, elevations, Sections, kitchen plans and interior elevations, furniture Plans and lighting/electrical plans. Students will have the Opportunity to design their own "vacation" homes, learn the Fundamentals of blueprint reading and use the blueprint Process to generate their own plans. The Massachusetts state Building code will be introduced. Students will develop a Portfolio of drawings that will be used as part of the Portfolio requirement for future architectural course work and professional placement. Instructional time: 2 lecture and 6 lab hours. COREQUISITE: ABT-150L.

Credit Course Descriptions

ABT-210 BLDG CODES AND PRINCIPLES 3 CREDITS

This course will introduce students to the Massachusetts State building code, its history and its application to the design and construction related fields. Students will examine the issues of energy efficiency and the environmental impact of our built environment. This course will also serve as a survey course to familiarize students with the origins, properties and uses of the most common materials used in construction. Students will become familiar with the major structural components of a building. Students will explore the differences between building codes and zoning regulations and their impact on the structures we build. Three lecture hours.

ABT-220 SUSTAINABILITY & THE BUILT ENVIRONMENT 3 CREDITS

This class will explore the issues of sustainability from the perspective of the built environment, its history of development, construction of buildings/infrastructure and its impact on the natural environment. Students will be exposed to issues of human impacts on natural systems through the built environment and the variety of disciplines that are working to create a more sustainable future.

ABT-225 INTRODUCTION TO BUILDING INFO MODELING 2 CREDITS (+1 LAB CREDIT)

An introduction to Building Information Modeling (BIM). BIM is changing the way projects are designed and constructed. Whether you are a designer or a contractor using BIM across an entire project or a subcontractor/consultant impacted by a specific BIM implementation, this emerging practice requires new approaches and technological proficiency. Expanding upon the skills acquired in ABT-125 and ABT-135, this course presents advanced topics in CADD/BIM software. Industry standard CADD tools such as Revit, AutoCAD, and NavisWorks will form the basis for the course. PREREQUISITE: ABT-125, ABT-135 and ABT-150; COREQUISITE: ABT-225L.

ABT-250 ARCH DESIGN 3: PUBLIC/COMM SPACES 2 CREDITS (+1 LAB CREDIT)

This course will introduce students to public and commercial architecture. The course will explore how the needs of the community are met through public buildings such as libraries, schools, and courthouses. Additionally, commercial projects to include restaurants, retail stores and office buildings will be explored. Students will investigate how these spaces could be improved or adapted to better serve the energy concerns of the 21st century. A final commercial or public project to be chosen by the student will include graphic representations, building models, and a written/oral presentation to the class. Two lecture and 3 laboratory hours. PREREQUISITE: ABT-135, ABT-150 and ABT-155; COREQUISITE: ABT-250L.

ARTS

ART-101 INTRO TO ART: BASIC DESIGN 2 CREDITS (+1 LAB CREDIT)

This studio course is an introduction to the basic concepts in two-dimensional design, providing a foundation to engage in the creative process. Students will learn and apply technical skills, problem solving methods and visual design principals common in art and design. No previous art background is required. Five in-class hours weekly. COREQUISITE: Take ART-101L.

ART-102 BASIC DRAWING 2 CREDITS (+1 LAB CREDIT)

This studio course is an introduction to a variety of materials, techniques, and concepts used in observational drawing. Emphasis is placed on developing each student's individual drawing strengths and making the student critically aware of a wide range of drawing techniques. No previous art background is required. Five in-class hours weekly. COREQUISITE: Take ART-102L.

ART-103 BASIC DESIGN 2 2 CREDITS (+1 LAB CREDIT)

This intermediate studio course focuses on color theory in art and design. Students will become critically aware of the way artists influence the viewer with color through a series of projects focusing on various materials, mediums, technical processes, and aesthetic principles common in art. Five in-class hours weekly. PREREQUISITE: ART-101; COREQUISITE: Take ART-103L.

ART-120 ART HISTORY: PREHISTORIC TO GOTHIC 3 CREDITS

Art History: Prehistoric to Gothic, is a survey of the major visual arts of the world, from the Paleolithic Era to the Gothic periods. Emphasis is placed upon understanding the impulse behind the artist's creative expression and the link between the paintings, sculpture, and architecture of each area and the culture in which they were produced.

ART-121 ART HISTORY: RENAISSANCE TO MODERN 3 CREDITS

Art History: Renaissance to Modern, is a survey of the major visual arts of the world, from the Renaissance to the Modern era. Emphasis is placed upon understanding the impulse behind the artist's creative expression and the link between the paintings, sculpture, and architecture of each area and the culture in which they were produced.

ART-123 ART AND CULTURE 3 CREDITS

This lecture course uses art as a lens through which to interpret a number of different cultures throughout the world. Throughout the semester we will explore customs, spiritual practices, social structures, and political influences as they are reflected through art.

ART-130 PAINTING 1 2 CREDITS (+1 LAB CREDIT)

This studio course is an introduction to the materials, processes, and aesthetic considerations in oil painting. Students will create a series of paintings that will emphasize individual expression, technical development, principles of pictorial composition and visual representation. No previous art background is required. Five in- class hours weekly. COREQUISITE: Take ART-130L.

ART-140 PRINTMAKING 1 2 CREDITS (+1 LAB CREDIT)

This studio course is an introduction to the materials, processes, and aesthetic considerations in relief printmaking. Students will create a series of woodblock prints that emphasize individual expression,

technical development, principles of pictorial composition and visual representation. No previous art background is required. Five in-class hours weekly. COREQUISITE: Take ART-140L.

ART-150 INTRODUCTION TO PHOTOGRAPHY 2 CREDITS (+1 LAB CREDIT)

This studio course is an introduction to the materials, processes, and aesthetic considerations in traditional black and white darkroom photography using conventional 35mm film cameras. Students will shoot, develop, and print a series of photographs focusing on individual expression, technical development, and principles of pictorial composition. Students are required to have access to their own 35mm manually operated camera. No previous art background is required. Five in-class hours weekly. COREQUISITE: Take ART-150L.

ART-206 FIGURE DRAWING 2 CREDITS (+1 LAB CREDIT)

This studio course is an introduction to the materials, processes, and aesthetic considerations in observational drawings of the human figure. Students will create a series of figure drawings that emphasize technical development, principles of pictorial composition and visual representation of the human form. Basic drawing is helpful, but not a PREREQUISITE. Five in-class hours weekly. COREQUISITE: Take ART-206L.

BIOLOGICAL SCIENCE

BIO-101 PRINCIPLES OF BIOLOGY 1 3 CREDITS (+1 LAB CREDIT)

Principles of Biology is an introductory course designed to meet the needs of the student who has no background in chemistry or biology. This is a first part of a two-semester presentation of the basic concepts of life science for the transfer student who does not wish to major in science, and for the health career program candidate for whom biology is a PREREQUISITE. The first semester provides an introduction to fundamental biological concepts including: the modern concept of life the structure and function of cells, biochemistry, cell reproduction, patterns of inheritance, and modern cell theory. PREREQUISITE: MAT-073 or MAT-078 (minimum grade C-) or placement at MAT-081 or higher. DRG-091 (minimum grade C-) or placement at DRG-092 or higher; COREQUISITE: BIO-101L.

BIO-104 HUMAN BIOLOGY 1 3 CREDITS (+1 LAB CREDIT)

This biology course, which is required by some health related programs but is open to other students, provides a basic knowledge of the structure and function of the human body. It integrates the study of anatomy and physiology with basic chemistry and microbiology and diseases relating to malfunctioning of these systems. Units studied include: chemistry, cells, tissues, microbiology, and skeletal, muscle, and nervous systems. All units are accompanied by appropriate laboratory studies and procedures. COREQUISITE: BIO-104L.

BIO-105 HUMAN BIOLOGY 2 3 CREDITS (+1 LAB CREDIT)

As a continuation of Human Biology 1, this course includes the study of special sense organs, and endocrine, circulatory, digestive, respiratory, urinary and reproductive systems. Laboratory procedures are stressed in hematology, the cardiovascular system, and the urinary system, accompanied by dissection of appropriate animal specimens and microscopic studies. PREREQUISITE: BIO-104; COREQUISITE: BIO-105L.

BIO-106 PRINCIPLES OF INFECTIOUS DISEASE 3 CREDITS

Principles of Infectious Disease will provide a broad understanding of the biology of pathogenic (disease causing) organisms and their impact on human health. Designed for the non-biologist, the course will begin with some basic aspects of cell biology before moving on to the major groups of pathogens and their characteristics. Through looking at examples from each group, students will be engaged in the exploration of how pathogenic organisms infect individuals and their effects at the level of the cell, organ, organ system and whole organisms. Molecular mechanisms of infection and effects of disease causing organisms will be discussed. Additional attention will be paid to prevention of disease for the individual as well as strategies and responses that public health agencies use to manage and prevent disease. Several examples of common human pathogens and their biology will be explored in detail while historical examples of disease outbreaks and their epidemiology will be discussed. Written and oral presentation of student work will be an integral part of the course. PREREQUISITE: MAT-073 or MAT-078 (minimum grade C-) or placement at MAT-081 or higher. DRG-091 (minimum grade C-) or placement at DRG-092 or higher.

BIO-107 WORLD FOOD HABITS AND SUSTAINABILITY 3 CREDITS (+1 LAB CREDIT)

This course reviews the evolution of world food habits from their earliest beginnings to the present. It will present the biological and environmental perspectives to global food systems. World dietary patterns will be examined with respect to human evolution and the influence of socialization and acculturation. The course will discuss the world revolutions that shaped current landscapes in food production and food science. Understanding the environmental sustainability of agricultural production and processing will be a vital component of this course. Special emphasis will be made on current trends in food biotechnology, fermented foods, functional foods and the effect of climate change on food production and world food habits. By the end of the course students should also have a better understanding of their own food choices. COREQUISITE: BIO-107L.

BIO-109 FORENSIC BIOLOGY 3 CREDITS (+1 LAB CREDIT)

This course will introduce students to the principles and techniques of Forensic Biology with a strong emphasis on the basic underlying biology. Material will include crime scene investigation and the recognition, collection, preservation and analysis of biological evidence. Given their importance in contemporary forensic biology, particular emphasis will be placed on the principles of DNA analysis and immunology. The goal of this course will be to introduce students to important biological concepts such as cell biology, molecular biology and immunology while also using these concepts to explore the science of Forensic Biology. COREQUISITE: BIO-109L.

Credit Course Descriptions

BIO-112 THE BIOLOGY OF HYDROPONICS 3 CREDITS

As an introduction to the biological basis of hydroponics, the Biology of Hydroponics will use the science of hydroponics as a vehicle for exploring how plants grow and develop. Students will learn basic plant biology, cell physiology, plant structure and function, nutrient requirements and environmental requirements and will apply this knowledge to understanding the design of agricultural hydroponic systems and how they provide what plants need to grow and thrive with some widely grown hydroponic species (e.g. tomatoes, cannabis, and greens) used to provide examples of specific hydroponic systems. Written and oral presentation of student work will be an integral part of this course. PREREQUISITE: MAT-073 or MAT-078 (minimum grade C-) or placement at MAT-081 or higher. DRG-091 (minimum grade C-) or placement at DRG-092 or higher.

BIO-114 BIOCHEMISTRY 3 CREDITS

An introduction to biochemical principles. Emphasis is on the major metabolic pathways, the mechanisms of enzyme action, bioenergetics and the role of hormones and other regulatory substances.

BIO-115 NUTRITION 3 CREDITS

Application of nutrition principles in the planning, selection and preparation of foods to meet one's physical, social and economic needs. Discussion of current issues such as vegetarianism, health foods, fad diets, weight control, food additives/preservatives, nutrition labeling, stretching the food dollar, and safe food handling will be presented.

BIO-119 ESSENTIALS OF HUMAN BIOLOGY 1 2 CREDITS (+1 LAB CREDIT)

This course will present an overview of human anatomy and physiology with an introduction to microbiology. Interaction of all body systems is discussed with emphasis on those topics relating to Cosmetology. Specific topics included are cell structure, tissue, and the skeletal, muscular, and nervous systems. High school Biology and/or Chemistry is a PREREQUISITE of this course. This course is restricted to students in the Cosmetology program. COREQUISITE: BIO-119L.

BIO-141 FUNDAMENTALS OF ENVIRONMENTAL BIOLOGY 3 CREDITS (+1 LAB CREDIT)

This lab course is designed to meet the needs of the non-science major. The first half of the course introduces basic ecologic principles such as energy flow through ecosystems, food webs, nutrient cycling, population growth and natural selection. The second half of the course addresses many of the environmental problems currently facing humans. Topics discussed include human population dynamics, natural resource consumption, loss of biological diversity, deforestation, habitat loss, endangered species and environmental laws. COREQUISITE: BIO-141L.

BIO-201 BIOLOGY 1 3 CREDITS (+1 LAB CREDIT)

Geared to the prospective science major, the first semester of this course provides an introduction to the methods of science followed by a discussion of the molecular basis of biology and the architecture of cells and tissues. Consideration is then given to the central energy pathways-cellular respiration and photosynthesis. An in-depth coverage of cellular reproduction, classical and molecular genetics follows. PREREQUISITE: DWT-099 (minimum grade of C-) or placement at college-level English; COREQUISITE: BIO-201L.

BIO-202 BIOLOGY 2 3 CREDITS (+1 LAB CREDIT)

A continuation of General Biology 1, in which the general morphology and physiology of representatives from all the major kingdoms are discussed. Considerable attention is given to the study of the vascular plant body and vertebrate systems. PREREQUISITE: BIO-201; COREQUISITE: BIO-202L.

BIO-231 ANATOMY & PHYSIOLOGY 1 3 CREDITS (+1 LAB CREDIT)

A comprehensive study of the structure and function of the human body, to serve as a background for the application of scientific principles in both everyday life and the work of various health disciplines. Laboratory practice includes the study of tissues by using microscopic examinations and the dissection of animal specimens, along with physiological experimentation. Units covered are concerned with general introductory material, the skeleton, muscles and the nervous system. PREREQUISITE: DRG-092 or DWT-099 or placement at college-level English or Reading. BIO-101 or BIO-201 (minimum grade of C+) or MAT-097(minimum grade of C-); COREQUISITE: BIO-231L.

BIO-232 ANATOMY & PHYSIOLOGY 2 3 CREDITS (+1 LAB CREDIT)

A continuation of Anatomy & Physiology 1 concentrating on circulatory, respiratory, digestive, urinary, endocrine, and reproductive systems. Laboratory sessions are included. Emphasis is placed on association, correlation, critical thinking and overview of the body as a whole. PREREQUISITE: BIO-231 (minimum grade C-); COREQUISITE: BIO-232L.

BIO-235 MICROBIOLOGY 3 CREDITS (+1 LAB CREDIT)

A basic study of microorganisms, their structure, growth processes, and control. The concepts of infection, immunity and hypersensitivity precede the survey of the microbiology of major infectious diseases. The course meets for three hours of lecture and three hours of laboratory per week. PREREQUISITE: DRG-092 or DWT-099 or placement at college-level English or Reading. BIO-101 or BIO-201 (minimum grade of C+) or MAT-097 (minimum grade of C-). BIO-231 recommended; COREQUISITE: BIO-235L.

BIO-263 GENETICS 3 CREDITS (+1 LAB CREDIT)

An introduction to the principles of classical, molecular, population and evolutionary genetics. The history and development of the field of genetics, Mendel's contributions, the molecular and chromosomal basis of inheritance, meiosis and probability theory are highlighted along with gene mapping, variation in inheritance patterns, DNA mutation and repair, and the genetics of cancer and human disease. Laboratory experiments are designed to complement and demonstrate the major concepts presented in lecture. PREREQUISITE: BIO-201 and CHM-111; (minimum grade C-); COREQUISITE: BIO-263L.

Credit Course Descriptions

BIOMEDICAL ENGINEERING TECHNOLOGY

BMT-101 INTRO TO BIOMEDICAL DEVICES AND INDUSTRY 3 CREDITS

This course introduces students to the conceptual clinical engineering department in a hospital. Students learn the organization of the hospital and the operation of the clinical engineering department. Students are introduced to the professional requirements of performing their tasks in the administrative and patient care environments of a hospital or related health care facility. An introductory set of instrument technologies and test and maintenance equipment are explored as well as the underlying sensor and transducer technologies.

BMT-210 BIOMEDICAL SYSTEMS 3 CREDITS

Building upon BMT-101 this course extends the exposure to and study in detail of the most common biomedical instruments. Investigation is focused on the individual instrument classes, instrument use in practice, and instrument service technique. General practice topics and instrument specific topics are studied. Some biomedical instruments may involve off-campus locations. PREREQUISITE: Take BMT-101.

BMT-220 SENSORS FOR BIOMED SYSTEMS 3 CREDITS (+1 LAB CREDIT)

This course will introduce the student to the fundamentals of sensor systems typically used in biomedical equipment found in a clinical and/or home health care setting. Starting with an introduction to the non-invasive sensors used to obtain classic vital signs (i.e. temperatures blood pressure, and respiratory rate) and pulse oximeters for blood-oxygen level, the course precedes to answer the question of how these sensors are electronically interfaced to recording and display equipment. Next, sensors used to monitor the electrical activity of the heart, brain, and skeletal muscle systems are examined (i.e. EKG, EEG, and EMG) with emphasis again given to the interface of the physical sensors to the electronics of recording equipment. Newly emerging, acceleration, pressure, magnetic, and touch sensors are studied in the context of medical sensing for a variety of functions including home health care. Again, the interface technologies (i.e. I2C and serial peripheral interface, SPI, bus) used for this new class of sensors is studied. Invasive imaging devices used for endoscopy are examined next with attention given to the fiber-optics and CMOS active-pixel sensor technology employed. An overview of the theory and operation of standard imaging devices (i.e. X-ray, Ultrasound, MRI, CT, PET, and PET-CT or PET-MRI) is given with particular attention paid to the networking of these devices. Students are introduced to basic test and measurement equipment used in this field and the fundamentals of sensor system operation evaluation. PREREQUISITE: Take ELE-240.

BIOTECHNOLOGY

BIO-164 INTRODUCTION TO BIOTECHNOLOGY 3 CREDITS (+1 LAB CREDIT)

This course provides a general introduction to the field of biotechnology. Research trends and methodologies currently exploited within the field are discussed along with the impact these endeavors may have on the quality of life. The concepts discussed include the history and development of the field of biotechnology and current trends in the biotechnology industry such as recombinant DNA technology, genetic testing, transgenics, gene therapy and biofuels. Laboratory experiments are designed to complement and demonstrate the major concepts presented in lecture and offer hands-on experience with contemporary biotechnology laboratory skills including Good Manufacturing Practices (GMP); Good Laboratory PRactices (GLP), documentation; lab calculations and solution prep; aseptic technique technique; cell culture and and analysis of DNA and proteins. Three lecture and 3 lab hours. COREQUISITE: Take BIO-164L.

BUSINESS ADMINISTRATION

BUS-105 INTRODUCTION TO PERSONAL FINANCE 3 CREDITS

Foundations of financial planning are presented to prepare students to make informed choices in a consumer decision-making framework that leads to long-term financial security. Students learn to identify and evaluate choices and understand the consequences of their decisions. Topics include an overview of financial goal setting, budgeting, consumer buying, savings, credit cards, debt, student loans, loans, investments, real estate, insurance and retirement planning.

BUS-222 BUSINESS DECISION TOOLS 3 CREDITS

Students will create and format worksheets primarily using MS Excel; other spreadsheet tools will be introduced. Basic worksheet concepts such as applying font styles, setting margins, modifying cell contents, inputting formulas/functions, and creating various charts will be covered. Advanced topics to be introduced include functions (financial, text, statistical, logical), lookup tables, pivot tables, what-if analysis, macros, templates, and managing workbooks. Business decision products will be introduced, including Microsoft Excel Add-ins, MS Access, data analytics, data mining, business intelligence, and dashboards. Emphasis will be placed on reading data and on assessing the story that is being told by the data.

ENT-101 INTRODUCTION TO ENTREPRENEURSHIP 3 CREDITS

This course is designed to introduce students to the entrepreneurial process from conception to birth of a new venture. Students will examine elements in the entrepreneurial process-personal, sociologist, and environmental-that give birth to a new enterprise. Critical factors for starting a new enterprise such as alternative career prospects, family, friends, role models, the state of the economy and the availability of resources will be explored. Students will be introduced to practical tools they can use to further their careers in business, both in entrepreneurship and in more traditional

company environments. This course simulates the experiences the entrepreneurs undergo in conceiving, launching, and operating new businesses. The course enables students to evaluate an entrepreneurial career for themselves. In doing so, it provides want-to-be entrepreneurs with a framework for selecting, funding, and starting their own new ventures.

FIN-101 INTRODUCTION TO FINANCE 3 CREDITS

This course is designed to acquaint the student with the manner in which the financial system functions and with the techniques used to reach financial decisions. Major topics to be studied include the nature of money and financial institutions, central banking, securities markets, managing and financing of organizational assets. Special emphasis is given to financial decision-making. PREREQUISITE: ACC-101.

LAW-214 BUSINESS LAW ESSENTIALS 3 CREDITS

The primary purpose of this course is to help the student develop an understanding of the legal environment as it affects businesses and business transactions and to help provide the student with the critical thinking skills needed to make sound business decisions. The course will deal with such areas as our legal system, contracts and sales, business forms and formation, torts, property rights and the employment relationship. PREREQUISITE: ENG-101.

CHEMISTRY

CHM-101 SURVEY OF CHEMISTRY 1 3 CREDITS (+1 LAB CREDIT)

This course can satisfy the science requirement for non-science majors. A survey of topics in inorganic chemistry including: problem solving strategies with emphasis in the use of dimensional analysis (conversion factors); atomic and molecular structure; periodic properties; stoichiometry; gas laws; acid-base behavior; solutions; nomenclature; chemical bonding; Lewis structures. Three one-hour lectures and one three-hour lab per week. PREREQUISITE: MAT-089, MAT-083 or MAT-087 (minimum grade of C-), or placement at MAT-097 or higher; COREQUISITE: CHM-101L.

CHM-111 GENERAL CHEMISTRY 1 3 CREDITS (+1 LAB CREDIT)

This course is for science majors, engineers, and students transferring to pre-med, pre-vet, pre-dental or pharmacy programs. Critical thinking is stimulated through the solution of multi-step problems. Topics include: dimensional analysis; atomic, molecular and electronic structure; stoichiometry solubility; precipitation and redox reactions; gases; periodic table and periodic trends; thermochemistry. Three one-hour lectures and one three-hour lab per week. PREREQUISITE: 1 year of HS chemistry or physics, and MAT-097 or placement at college-level math; COREQUISITE: CHM-111L.

CHM-112 GENERAL CHEMISTRY 2 3 CREDITS (+1 LAB CREDIT)

A continuation of CHM-111. Critical thinking is stimulated through the solution of multi-step problems. Topics include: chemical bonding; molecular geometry and hybridization; intermolecular forces; solutions; kinetics; chemical equilibrium; acids and bases; thermodynamic functions; electrochemistry. Three one-hour lectures and one three-hour lab per week. PREREQUISITE: CHM-111; COREQUISITE: CHM-112L.

CHM-201 ORGANIC CHEMISTRY 1 3 CREDITS (+1 LAB CREDIT)

This course is designed for transfer students with majors in chemistry, biology, pre-med or predental. Reaction, synthesis and mechanism of organic reactions will be studied. Three one-hour lectures and one three-hour lab per week. PREREQUISITE: CHM-112; COREQUISITE: CHM-201L.

CIVIL ENGINEERING TECHNOLOGY

CET-115 CONSTRUCTION MATERIALS AND METHODS 3 CREDITS

A survey of common materials and methods used in building construction is presented. Materials covered include wood, glue laminated timber, steel, non-ferrous metals, concrete, plastics and insulation. Emphasis is placed on their physical properties, use in construction and construction techniques for completing the project.

CET-210 SURVEYING 1 2 CREDITS (+2 LAB CREDITS)

The theory and practice of construction surveying. Field practice is given in the use of tape, level, total station and data collectors. This is a laboratory-oriented course encompassing baseline, different, profile and cross-section leveling, establishment of contours, traverse closures, construction stakeout of buildings and property lines, and development of topographic maps utilizing engineering software and data collector input from field operations. COREQUISITE: CET-210L, MAT-124.

CET-225 SOILS & FOUNDATIONS 3 CREDITS (+1 LAB CREDIT)

The theory and concepts of soil mechanics and foundation design. Topics include soil types, behavior, identification, classification; soil properties; site investigation, methods, and goals; permeability, surface tension, capillarity, and related concerns; shear strength; sub-surface stresses, settlement, sizing footings; groundwater contamination; landfill liners and covers; soil compaction. The weekly three-hour lab is devoted to geotechnical testing and application of foundation design theories. Two hour lecture and three hour laboratory. COREQUISITE: CET-225L, MAT-124.

CET-245 STATICS AND STRENGTH OF MATERIALS 3 CREDITS (+1 LAB CREDIT)

An introduction to stress and force theories as they apply to the equilibrium of rigid bodies and particles. Principles of resultant forces, free body diagrams, tension and compression members, truss analysis, applied forces to beams and columns, frictional forces, and torsion are studied. Additional topics include stress and strain, mechanical properties of engineering materials, factors of safety, centroids, and moments of inertia. The weekly three-hour lab is devoted to in-depth problem analysis and solutions that expand classroom theories plus laboratory tests that demonstrate the practical applications of these theories. PREREQUISITE: MAT-124 and PHY-221; COREQUISITE: Take CET-245L.

Credit Course Descriptions

COLLEGE SUCCESS

FYE-101 FIRST YEAR EXPERIENCE 1 CREDIT

This course will address the many transitional needs of the new student at Springfield Technical Community College. By engaging with subject matter that prepares them to achieve in a collegial setting, they will be equipped with tools to assist in their educational success. The course will cover topics such as study skills, academic planning, communication skills, and conflict resolution. Students will actively engage in areas like conflict resolution, locating campus resources, and how to advocate for oneself during advising or financial aid conversations. Assessments may include writing assignments, campus resource visits, oral presentations, etc.

RCH-100 BASIC RESEARCH 1 CREDIT

This introductory course will teach students basic research skills. Students will learn to locate, collect, analyze, document and use information to increase their understanding of a topic or issue. The course will provide students with an opportunity to investigate various information sources in their program or area of academic interest. Students will become familiar with research citations formats required for their professional fields.

COMPUTER INFORMATION TECHNOLOGY

CIT-101 CIT FOUNDATIONS 3 CREDITS

This course provides a foundation for all Information Technologies majors in developing an awareness of the vital need businesses and institutions have for instituting and managing efficient and effective systems to handle today's information requirements. A major component of the course is to increase critical thinking skills by identifying and solving typical information problems. PREREQUISITE: DRG-092, DWT-099 (or placement at higher level) and OIT-100 or passing of keyboard test; COREQUISITE: Take MAT-087, MAT-083 and OIT-100.

CIT-115 PYTHON PROGRAMMING 3 CREDITS (+1 LAB CREDIT)

This is an introductory course to the Python programming language focusing on object-oriented concepts of defining classes, instantiating objects, using objects, and using application programmer's interfaces. Students will design, code, debug and test programs coding basic programming concepts such as variables, data types, GUI concepts, and all decision/conditional, iteration structures and arrays and lists will be introduced and used throughout the course. PREREQUISITE: DWT-099 and DRG-092 (minimum grade C-) or placement at higher level, MAT-087 (minimum grade C-) or placement at higher level, OIT-100; COREQUISITE: CIT-115L

CIT-120 WINDOWS 1 3 CREDITS

This course will examine the Microsoft Windows desktop operating system from the perspective of an IT professional. It will focus on the highly technical topics of the operating system's software design, hardware architecture, performance optimization, file systems, user permissions, and security. Students will spend considerable class time in labs installing, configuring, optimizing, and troubleshooting the operating system. PREREQUISITE: CIT-101.

CIT-121 WINDOWS 2 3 CREDITS

This course will take an in-depth look at the Microsoft Server Operating system from the perspective of a system administrator. The subjects discussed will include server infrastructure, Active Directory, domains, AD trees, AD forests, AD sites, organizational units, and group policies. Students will install, configure and administer a Windows server, an Active Directory domain, domain users, domain groups and apply group policies to a separate desktop in a lab environment. PREREQUISITE: CIT-120.

CIT-130 UNIX 1 3 CREDITS

This is an introductory course to Linux/UNIX Operating System. Students will install the operating system and interact with Linux/UNIX using both the command line interface as well as the Graphical User Interface. Navigation of the file system, file creation and management, text editors, administration privileges, file permissions, installation or additional software packages, system monitoring and basic script writing will be covered. PREREQUISITE: CIT-101.

CIT-131 UNIX 2 3 CREDITS

This is a continuation of the introductory Linux/UNIX course. Focus of the course will be Linux/UNIX server management from an administrator's perspective including permissions, web services, disk management, mounting of traditional and LVM file systems, crontab, user management and backup topics. Network configuration topics of SSH, FTP, WINE, DHCP, DNS, Daemon and services. Additional topics of performance monitoring, SELinux and journalctl concepts and shell scripting will also be included. PREREQUISITE: CIT-130.

CIT-140 WEB AUTHORING 1 3 CREDITS (+1 LAB CREDIT)

This course focuses on the advanced features of web authoring: incorporating frames and enhanced layout, designing user input forms, uploading web pages, multimedia and creating image maps. Web scripting will be introduced. Commercial packages for web page design will be discussed and used in this course. PREREQUISITE: CIT-101; COREQUISITE: Take CIT-140L.

CIT-161 NETWORKS 2 3 CREDITS

This course will teach advanced network administration, including how to monitor network servers and LAN/WAN management. The topics of DHCP, DNS, mail server management, FTP, IIS, and other system services will be covered. This course will emphasize network trouble-shooting and critical thinking skills. The course will also contain advanced LAN/WAN concepts including network layout, TCP/IP and network design. PREREQUISITE: CIT-160.

CIT-201 DATABASE SYSTEMS AND SECURITY 3 CREDITS (+1 LAB CREDIT)

The goal of this course is for students to become knowledgeable in the design, development, management, and security of a relational database system. The course introduces database syntax using

Structured Query Language (SQL) within the ORACLE database environment. The students will have experience in writing queries to retrieve as well as DML, DDL, DCL and transactions processing. Database security topics such as security threats, SQL injection and access privileges will be covered to promote secure and reliable database environments. PREREQUISITE: CIT-101; COREQUISITE: CIT-201L.

CIT-225 COMPUTER MAINTENANCE A+ 3 CREDITS (+1 LAB CREDIT)

This is a current and comprehensive course on configuring, diagnosing, and repairing microcomputers and associated technologies. This course covers the advanced hardware and software issues current personal computer systems. Topics covered include: how computers work, how software and hardware work together, the systems board, understanding and managing memory, hard dis drives, installing and supporting disk drives, troubleshooting fundamentals, supporting I/O devices, and operating system fundamentals, updates and upgrades. The lab portion of the course will allow students to verify the concepts introduced in the class by performing hands-on exercises. Completion of this course will assist the student in preparing to pass the A+ certification exams and succeed in the PC repair industry. PREREQUISITE: CIT-101; COREQUISITE: Take CIT-225L.

CIT-250 INTERNET/NETWORK SECURITY 1 3 CREDITS

This course will teach the students about data protection and threats. The students will learn about Operating System protection, network protection and desktop protection techniques. The student will learn about the many threats to a network and how to protect against those threats. The students will use hands-on tools that hackers use to gain an understanding of the various vulnerabilities that exist. PREREQUISITE: CIT-120 CIT-130, CIT-160.

CMP-106 COMPUTER BASICS: CONCEPTS & APPLICATIONS 3 CREDITS

This course covers the most important computer literacy topics including a fundamental understanding of computer hardware (input, output, processing, and storage), and software (systems, applications, and productivity); using operating systems and common program functions; a practical study of the Internet (e-mail, Internet search techniques; resource evaluation and citations); a practical study of common productivity software (word processing, spreadsheet, database, and presentation); and an understanding of the implications and effects of computers in our social order. PREREQUISITE: Take OIT-100.

CMP-121 WORD PROCESSING 3 CREDITS

Students will create and edit various documents. The student will be introduced to basic word processing concepts such as applying character effects, finding/replacing text, creating headers/ footers, moving text, creating envelopes/labels, and changing fonts, alignment, page numbering. Managing files, creating tables, and inserting graphics will also be introduced. Successful completion of the course will prepare the student for MOUS certification in MS Word (Core Level). PREREQUISITE: 20 WPM.

CMP-122 EXCEL 3 CREDITS

Students will create and format worksheets in MS Excel. The student will be introduced to basic worksheet concepts such as applying font styles, setting margins, modifying cell contents, inputting formulas/ functions, and creating various charts. Successful completion of the course will prepare the student for MOUS certification in MS Excel (Core Level). PREREQUISITE: 20 WPM.

CMP-123 ACCESS 3 CREDITS

In this course students will learn to create a database table and create relationships between database tables. Students will create forms, reports, mailing labels and charts. Students will also gain experience in using database wizards and office links, performing queries, and filtering records. Successful completion of the course will prepare the student for MOUS certification in MS Access (Core Level). PREREQUISITE: 20 WPM.

CMP-124 POWERPOINT APPLICATIONS 2 CREDITS

Students will create various presentations using Microsoft PowerPoint. The student will be introduced to many features to enhance the appearance of slides by changing the slide design and color scheme and adding animation and sound. Advanced PowerPoint features will be presented such as customizing clip art images, creating and enhancing charts, adding custom backgrounds, using design templates, and designing a custom show. Students will be required to create an original slide presentation. Successful completion of the course will prepare the student for MOUS certification in MS PowerPoint (Core Level). PREREQUISITE: 20 WPM.

CMP-125 DESKTOP PUBLISHING 3 CREDITS

A comprehensive introduction to a powerful desktop publishing software program such as Microsoft Office Publisher or Microsoft Word. The student will have use of a microcomputer system and receive hands-on experience. The course will be heavily project-oriented. The student will be guided into producing increasingly complex publications, thus experiencing a variety of techniques and achieving self-sufficiency. Hardware and software concepts as well as terminology associated with desktop publishing will also be included in this course. PREREQUISITE: CMP-121 or CMP-106.

OIT-101 KEYBOARDING 3 CREDITS

This course is designed for any individual wishing to develop touch keyboarding skills when entering alphabetic and numeric data on the personal computer. The student will be provided with projects designed to build speed and accuracy on both straight copy and business forms. A minimum touch keyboarding rate of 25 words per minute is required for course completion. Available to the entire STCC community.

Credit Course Descriptions

COMPUTER SCIENCE

CSC-100 INTRODUCTION TO COMPUTER SCIENCE
3 CREDITS (+1 LAB CREDIT)

This course is designed to provide a foundation for more advanced courses in computer science and engineering. The course will begin with an introduction to computer systems and the understanding of the implications and effects of the computer in our social order. The course will provide and stress the principles of good programming style and structure. The class will meet for three class hours and three lab hours each week. PREREQUISITE: MAT-097 or placement at college-level math; COREQUISITE: Take CSC-100L, MAT-124 or higher.

CSC-111 INTRO TO THE JAVA PROGRAMMING LANGUAGE
3 CREDITS (+1 LAB CREDIT)

This course provides first-time programmers a fundamentals-first approach to learning the Java programming language. The course introduces basic programming concepts and techniques including selection, looping, method definitions, step-wise refinement, and arrays. In addition to these fundamental concepts the beginnings of object oriented programming and class creation are introduced. Students will primarily be developing command line Java applications and by the end of class should be able to create simple programs using Java technology and read and edit Java technology source code using an industry standard integrated development environment (IDE). PREREQUISITE: MAT-097 or placement at college-level math; COREQUISITE: Take CSC-111L & MAT-124 or higher.

CSC-210 COMPUTER ORGANIZATION AND DIGITAL LOGIC
3 CREDITS (+1 LAB CREDIT)

This course will introduce the students to Binary numbers, Hexadecimal numbers, Boolean algebra, Karnaugh Maps and Quine-McCluskey method of simplifying a circuit. Logic design circuits such as Adders, Registers, Decoders, Miltiplexers, ROMs, PLAs and PALs are introduced in the class. In the final part of course, students will be introduced to Sequential Circuits and Synchronous/Asynchronous circuit design. PREREQUISITE: CSC-111 and MAT-125; COREQUISITE: CSC-210L.

CSC-220 DATA STRUCTURES AND ALGORITHMS
3 CREDITS (+1 LAB CREDIT)

Course provides a survey of classic data structures. Content includes methods of analysis applied to algorithms that manipulate dynamic and static data structures. Object-oriented programming techniques are utilized to implement lists, trees, queues, and other structures using the Java language. Algorithms focus on sorting and searching methods, as well as recursive solutions. PREREQUISITE: CSC-111 and MAT-125; COREQUISITE: Take CSC-220L.

COMPUTER SYSTEMS ENGINEERING TECHNOLOGY

CSE-110 INTRO TO CMPTR SYSTEMS (COMPTIA A+)
2 CREDITS (+1 LAB CREDIT)

This is an introductory course that will prepare Computer Systems Engineering Technology students for more advanced courses in the department. The course is designed around the current Comptia A+ certification objectives. Hands-on coverage includes popular PC operating systems and hardware. Specific topics include system booting, system configuration, BIOS, disk management, CPUs, bus architectures, power supplies, disk drivers, memory, multimedia, field replaceable units (FRUs), and network devices. Students learn how hardware devices integrate into and work with an operating system. The internet is used extensively for research including product documentation, software upgrades, driver upgrades, and product comparison. In the lab students will use a collection of hardware and software components to build, modify, upgrade, and trouble shoot today's popular PC hardware and operating systems. COREQUISITE: Take CSE-110L.

CSE-150 LINUX COMMAND AND SHELL PROGRAMMING
3 CREDITS

This course covers Linux Command line and Shell scripting using BASH. The topics covered are primarily targeted at automating system administration tasks, workflow automation, and security. Students will explore managing user accounts, remote access using secure shell (SSH), process control, file system types and characteristics, encryption & decryption, file and directory manipulation, remote & local storage, system monitoring & logging, hardware status & configuration, and the contents of key configuration files that configure security, networking the boot process, scheduling, & applications. Students will write and test programs to monitor users, system status, and detect security violations & events.

CSE-160 INTRODUCTION TO PROGRAMMING USING PYTHON 3 CREDITS

Python is a popular open source programming language used for general programming, programming system & network administration tasks, processing data sets in data science, and it is used to program many Internet of Things (IoT) devices. The course begins with a Python and Linux concepts overview (no prior experience expected) and takes the student from building simple programs to maintaining larger programs. Software development tools such as differences, make, and GIT version control are integrated throughout the course. Programming assignments often use real-life data sets and others may be run on an IoT system such as the Raspberry Pi, to demonstrate collecting and processing sensor data from the Internet of Things.

CSE-220 COMPUTER AND NETWORK SECURITY 3 CREDITS

Topics include security management practices, access control systems, telecommunications and network security, public and private key cryptography, security concerns for application and software development, business continuity planning and disaster recovery planning. Students will be able to select and use cryptographic

tools to secure data, examine firewall settings, use & verify common cryptographic hash signatures, and create signed files. Target skills are the creating and maintenance of a security plan, the system administrator's responsibilities to implement the plan, techniques and tools to audit and monitor security, threat analysis, and increasing security awareness. An overview of the current security certifications and their requirements will be given at the end of the class. Students are expected to have some computer and network experience. Some homework requires Internet access to the department's servers. Students may take the course at the instructor's discretion.

CSE-250 INFORMATION STORAGE MANAGEMENT 3 CREDITS (+1 LAB CREDIT)

Information and Storage Management (ISM) moves beyond simple hard drive storage to the technology necessary to increase the reliability and flexibility for modern data centers. Course coverage includes data de-duplication, unified storage, continuous data protection technology, virtual provisioning, FCoE, flash drives, tiered storage, big data, and more. Details storage models such as RAID, Network Attached Storage (NAS), Storage Area Network (SAN), tape backup, and backup strategies. Virtualization at various infrastructure components is explored. Examines Business Continuity and Security in physical and virtualized environment. ISM may be taken before or after Virtualization using VMWare ESXi Server. PREREQUISITE: CSE-110 or permission of instructor; COREQUISITE: Take CSE-250L.

CSO-105 CISCO INTRODUCTION TO NETWORKS 3 CREDITS (+1 LAB CREDIT)

This course is the first course in the Cisco Academy CCNA Routing and Switching curriculum. CSO-105 introduces the architecture, structure, functions, components, and models of the internet and computer networks. The principles of IP addressing and fundamentals of Ethernet concepts, media, IPV4 and IPV6, configuring Cisco networking equipment using IOS, and network troubleshooting. By the end of the course, students will be able to build simple LANs, perform basic configurations for Cisco routers and switches, and implement IP addressing schemes. COREQUISITE: Take CSO-105L.

CSO-155 CISCO ROUTING AND SWITCHING ESSENTIALS 3 CREDITS (+1 LAB CREDIT)

Describes the architecture, components, and operations of routers and switches in a small network. Students learn how to configure a router and a switch for basic functionality. By the end of this course, students will be able to configure and troubleshoot routers and IPV4 and IPV6 networks. Students will program Cisco routers and switches, use the Cisco IOS to configure the devices, and evaluate the security and performance of the network. PREREQUISITE: CSO-105; COREQUISITE: Take CSO-155L.

CSO-180 CISCO CCNA CYBER SECURITY OPERATIONS 3 CREDITS (+1 LAB CREDIT)

The Cisco CCNA Cyber Security Operations course is taught through the Cisco Networking Academy with the latest course material from Cisco. Cybersecurity operations jobs play a key part of securing information systems through the monitoring, detecting, investigating, analyzing, and responding to security events, thus protecting systems from cybersecurity risks, threats, and vulnerabilities. Such jobs are among the fastest-growing roles in IT, as organizations set up security operations centers (SOCs), and establish teams to monitor and respond to security incidents. Cybersecurity Operations course serves to prepare students for the world of working in a security operations center and provides the basis for building upon their future career goals in cybersecurity. PREREQUISITE: CSO-155 and CSE-150, or permission from the instructor; COREQUISITE: CSO-180L

CSO-205 SCALING NETWORKS 3 CREDITS (+1 LAB CREDIT)

This course is the third course in the Cisco Academy version 5 CCNA Routing and Switching curriculum. Describes the architecture, components, and operations of routers and switches in a large and complex network. Students learn how to configure routers and switches for advanced functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with OSPF, EIGRP, STP, and VTP in both IPv4 and IPv6 networks. Students will also develop the knowledge and skills needed to implement DHCP and DNS operations in a network. PREREQUISITE: CSO-155; COREQUISITE: Take CSO-205L.

CRIMINAL JUSTICE

CRJ-101 INTRODUCTION TO CRIMINAL JUSTICE 3 CREDITS

An introduction and basic survey of criminal justice and the court systems, both state and federal. The course explores the concept of bail, the functions and roles of the judge, prosecutor, grand jury, defense attorney and public defenders, and sentencing in the courts. Also examined are the functions and objectives of the probation officer and parole officer, especially as related to rehabilitation of the offender. The role of the policeman in modern society is discussed and explored in detail.

CRJ-110 POLICING 3 CREDITS

This course is an introduction and basic survey of policing at the federal, state, and local level. This course examines what it means to be a "modern" police officer, including the development of law enforcement through various points in history. Students are introduced to the organization, function and objectives of modern policing; as well the process by which one becomes a police officer and makes their way through a career in the field. The concepts of crime control, peacekeeping, and order Maintenance are explored along with ethical and legal decision making. Also discussed are police-community relations, major issues facing the modern police officer, and innovations in police strategy; including Community Policing, Problem Oriented Policing, and Zero-Tolerance Policing.

CRJ-120 CRIMINOLOGY 3 CREDITS

This course explores the study of crime. This includes the concepts of crime, law and criminology. Major emphasis is given to the theorists and their theories or crime causation. The history of criminology is explored in detail. Crime Typologies are covered. The agencies of the criminal justice system and their effect on the study of criminology are also explored.

CRJ-130 CRIMINAL EVIDENCE 3 CREDITS

An analytical study of the rules of evidence, including such general areas as relevancy and materiality, hearsay evidence, introduction of writings, competency and privilege ,and parole evidence rule. Probative matter legally presented at the trial of a criminal case is given special attention. Also examined are rules concerning the admission of evidence in such specific areas as search and seizure, pre-trial identification admission of confessions, electronic surveillance, presumptions and privileges. PREREQUISITE: CRJ-101.

CRJ-150 PROCEDURAL LAW 3 CREDITS

This course is an introduction to the constitutional requirements and safeguards attendant throughout the criminal process, from investigation to arrest, interrogation through conviction, sentencing and beyond. Included is an in-depth review of the bill of rights and its influence in modern society. Emphasis is placed on actual Supreme Court decisions, especially as related to practical situations and problems confronting law enforcement personnel. Selected readings focus on practical application of constitutional principles. PREREQUISITE: CRJ-101 and DRG-092 or DWT-099 (minimum grade C-) or placement at higher level on the reading or writing placement tests.

CRJ-200 CRIMINAL LAW 1 3 CREDITS

This course explores and examines the substantive law of crimes, including the general and special areas of criminal laws. Of special interest is a survey of crimes against the person, crimes against property, parties to crimes, defenses based on justification, and the nature of the criminal act and conduct. Emphasis is placed on analysis of elements of particular crimes, offenses, and punishments through an examination of the statutes and case example. PREREQUISITE: CRJ-101 and DRG-092 or DWT-099 (minimum grade C-) or placement at higher level on the reading or writing placement tests.

CRJ-210 CRIMINAL INVESTIGATION 3 CREDITS

An introduction to field investigation, including conduct at the scene of the crime, interviewing and interrogation of witnesses and suspects, the use of informants, and techniques of surveillance. Emphasis is placed on special investigative techniques and on court procedures of the police case.

CRJ-215 INTRODUCTION TO CORRECTIONS 3 CREDITS

An introduction and basic survey of the corrections system at the federal, state, county, and local level. This course explores the concept of punishment, with a directed focus on its motivations and application at various points in history. Also discussed is the relationships between the inmate and administration, corrections officers, fellow inmates, friends and family, and society at large. This course presents students with the function and objectives of the corrections system from pre-trial diversion to imprisonment and though parole and re-integration into society.

CRJ-220 LAW ENFORCEMENT MANAGEMENT & PLANNING 3 CREDITS

Consideration of police problems at the administrative level, including coordination of all branches of a police department. An evaluation of line, staff, and auxiliary functions and the interrelationship of each. The purpose, need and scope of planning in the police operation, including staffing, correction of data and use of data processing.

DIGITAL MEDIA TECHNOLOGY

DMP-101 INTRODUCTION TO MULTIMEDIA 3 CREDITS

In this course, students will develop a personal definition of multimedia and multimedia quality, and understand a typology of multimedia applications derived from direct experience with existing multimedia materials. In addition, the students will develop an awareness of issues in the creation and delivery of multimedia products, and the role of the multimedia technologist in multimedia using or producing organizations. Finally, the course will outline future trends and opportunities in the multimedia technologies.

DMP-120 INTRODUCTION TO VIDEO PRODUCTION 3 CREDITS (+1 LAB CREDIT)

The purpose of the course is to a) teach students the basic operations of a television studio; b) expose students to the basics of television production in the field; and c) introduce students to digital video editing. Through lecture and lab the course will allow students to learn and experiment in basic television production and direction, from the concept of an idea, to its production in the studio; and finishing with an edited product. This course will also begin the process of teaching students how to work cooperatively in a group setting. The objective is to give individual students the opportunity to learn all of the aspects of broadcast production at an introductory level. These goals will be accomplished through small group lab projects. This course is offered only in the fall semester. COREQUISITE: Take DMP-120L.

DMP-141 FILM STRUCTURE AND ANALYSIS 3 CREDITS

A dynamic overview of narrative film structure that includes analyses of how movies express their meanings and how viewers interpret them. Topics include cinematography, production design, mise-en-scene, editing technique, sound design, and introductory film theory. Lectures include viewing films from a variety of genres followed by discussion and writing assignments. COREQUISITE: ENG-101.

DMP-150 INTRODUCTION TO DIGITAL EDITING 2 CREDITS (+1 LAB CREDIT)

This introduction to video editing course utilizes Apple Final Cut Pro edit systems to explore video editing on a digital platform. Lectures will cover basic video editing techniques that students master during lab in the Digital Video Editing Facilities. Topics include application set up, interface layout, log and capture, types of edits-both audio and video, graphic elements, edit tools, transitions, basic compositing, filters, sound mixing, motion effects, and finishing and outputting an edit sequence. COREQUISITE: Take DMP-150L.

DMP-160 AUDIO PRODUCTION 1 2 CREDITS (+1 LAB CREDIT)

This introductory course will explore the fundamentals of digital audio production for broadcasting including Radio and Television. Lectures will cover basic production techniques and theory that students master during lab time in the Audio Production Lab. Topics

include; sound waves, stereo versus mono, hertz and frequency along with microphone types and proper use, polar patterns, analog and digital mixers, signal level, and an introduction to operating professional digital audio software running on Apple computers. This course is offered only in the fall semester. COREQUISITE: Take DMP-160L.

DMP-210 ADVANCED TELEVISION WRITING 3 CREDITS

Having mastered the basics in the introductory course, this course focuses on script writing for production including news, public affairs, and corporate programming. Students will also research, write, and produce a short documentary As with the PREREQUISITE, writing comprises most of this course. This course is offered only in the fall semester. PREREQUISITE: DMP-110; COREQUISITE: Take DMP-250.

DMP-211 TV JOURNALISM 3 CREDITS

Broadcast writing proficiency, production, and reporting are stressed, along with an examination of what news is and what determination is made for story coverage. Through this course students learn to compile information and collate, unearth evidence and appraise it, budget their time and energy, and develop an appreciation for accuracy. Students will also develop the ability through a hands-on approach to produce a full news program. This course is offered only in the fall semester. PREREQUISITE: DMP-110 and ENG-101; COREQUISITE: Take DMP-210.

DMP-220 DIGITAL FILM MAKING 2 CREDITS (+1 LAB CREDIT)

Through viewing professional and student work, and utilizing the latest DV tools, students will explore the aspects of personal filmmaking. Through the course of a semester students will develop their own script for what is referred to as a "calling card" film short. During the pre-production stage, students will have the opportunity to create a series of short experimental/avant-garde productions. Students will experiment with light, color, camera movement and camera placement. Traditional film techniques will also be explored through the directing and editing of dramatic scenes. The semester will conclude with students producing their own film short. This course is offered only in the fall semester. PREREQUISITE: DMP-120; COREQUISITE: Take DMP-220L.

DMP-225 TV PRODUCTION PRACTICUM 2 CREDITS

Designed to provide students an exposure to professional settings, this course is taken on-site at a local cable, broadcast, medical, educational or industrial video production facility. Activities will be determined by the on-site supervisor according to the current needs of the practicum institution. The equivalent of 6 hours per week of the semester is served on a schedule agreed to by the student and the site supervisor.

DMP-251 INTERACTIVE MULTIMEDIA DESIGN 2 CREDITS (+1 LAB CREDIT)

Students will develop skills, strategies, and techniques for the design of linear and nonlinear multimedia projects including interactive presentation, interactive video, and hypermedia including World Wide Web. Students will complete projects in which they address issues on project planning and implementation, media integration, repurposing of existing content, copyright and human/computer interface design. This course is offered only in the spring semester. PREREQUISITE: DMP-101 and ART-101; COREQUISITE: DMP-251L.

DMP-252 DIGITAL SOUND AND VIDEO DESIGN 3 CREDITS

Using software which performs the functions of a traditional professional sound studio, the course details methods for recording, mixing, shaping, creating and otherwise composing sound flows for multimedia, motion pictures and video. Skills in these areas are applied aesthetically and visually to communication projects done by students in the multimedia computer lab using industry standard motion graphic software. This course is offered only in the fall semester.

DMP-260 DIGITAL AUDIO BROADCASTING 3 CREDITS

Focuses on current trends for both radio and emerging technologies in digital audio broadcasting. Includes training in both writing and performing for broadcast radio along with the procedures for programming and promoting a radio station. Students will be required to take on various roles in the production of the weekly department radio show, This is STCC. This course is offered only in the fall semester. PREREQUISITE: DMP-160.

ECONOMICS

ECN-101 INTRO TO MACROECONOMICS 3 CREDITS

This course is primarily concerned with macro- economics and aims at developing an understanding of American economic institutions and the economic problems of inflation, unemployment and economic growth. Emphasis is given to the principle tool of economists, the market model of demand and supply. The effects of both fiscal and monetary policies on the major problems of the economy are thoroughly explored.

ECN-102 INTRO TO MICROECONOMICS 3 CREDITS

This course is sequential to Economics 1 ECN-101 and is primarily concerned with Microeconomics. Microeconomics deals with the subsystems of the economy such as the economics of the firm and the industry. The major emphasis is on a thorough analysis of supply and demand and of the four market structures. The theories and concepts are then applied to American major industries.

EDUCATION

ECE-101 INTRODUCTION TO EARLY CHILDHOOD 3 CREDITS

This course will provide students with the opportunity to develop a realistic view of the teaching profession. It will foster an understanding of the major issues in early education. History and philosophy of contrasting early childhood education models; components of quality early learning; design of environments; child observation techniques; basic teaching skills; licensing regulations; and home/school/community relationships will be explored.

Developmentally appropriate practice and the appreciation of diversity will be emphasized. 10 hours of observation in the field will be required. PREREQUISITE: DRG-091 or placement at a higher level on the reading placement test.

ECE-110 CHILD/GROWTH AND DEVELOPMENT 3 CREDITS

Examines the growth and development of young children from conception through early elementary school years in view of the contemporary theories and findings of Erikson, Piaget, and others. Contributions from pediatric, nutritional, social services, and other disciplines are included. A major focus will be intellectual worlds. Alternative styles of child rearing in different cultures are integrated into the course. This course meets Office for Children requirements for training under Category A.

ECE-155 CREATIVITY & THE ARTS IN EARLY CHILDHOOD 3 CREDITS

Creativity and the Arts will explore the visual arts, music and movement, as well as drama in the context of Early Childhood. The integration of the arts into the content areas will be emphasized. Through active involvement students will come to appreciate their own creativity.

ECE-170 INFANT AND TODDLER CARE 3 CREDITS

This course provides students with an overview of group care for infants and toddlers. Emphasis will be placed on care and protection while examining safety, health, nutrition, and child abuse issues. The environment, daily routines, parental involvement, and staff selection and training will also be discussed.

ECE-200 EARLY LITERACY EARLY CHILDHOOD 3 CREDITS (+1 LAB CREDIT)

Early Literacy will focus on the emergence of literacy from birth through age eight. The interrelatedness of reading, writing, speaking and listening will be emphasized. Literacy acquisition will be viewed as an active and constructive process. Developmentally appropriate activities and learning materials will be explored, designed, and implemented. Children's literature will be the core of this course, recognizing the importance of quality literature in the lives of young children and in the emergence of literacy. PREREQUISITE: ECE-110, ECE-150 and ENG-102; COREQUISITE: Take ECE-200L.

ECE-220 EARLY CHILDHOOD PRACTICUM 1 4 CREDITS

Practicum One is an internship consisting of a minimum of 150 hours of work in the field. This student teaching experience will be conducted at an approved site, with the option of an infant/toddler or a preschool/kindergarten placement. The intent of this course is to give students the opportunity apply theory to practice and become skilled practitioners. Working under the direction of an experienced teacher, the students will gradually assume increased responsibility for classroom management, as well as the organization and design of curriculum. An additional requirement of this course will be a weekly 90 minute seminar. The seminar will give students the opportunity to reflect on their experiences in the classroom and discussion will focus on concerns and successes. PREREQUISITE: ECE-110 ECE-150.

EducationECE-221 Early Childhood Practicum 2 6 credits
Practicum Two is an extension of Practicum One. This internship will consist of an additional minimum of 150 hours of work in the field. It will conclude with the student teacher assuming full responsibility of the class for at least a one week period. A weekly 90 minute seminar will support the student teachers in this culminating experience. PREREQUISITE: ECE-200 ECE-220.

EDU-101 FOUNDATIONS OF EDUCATION: URBAN PERSPECTIVES 3 CREDITS

The objective of this class is to provide students with an introduction to the social, political, and economic conditions of contemporary urban schools such as inclusion, ability grouping bilingual education, tracking, teaching education, and multi-cultural education. The future of urban education and alternative approaches will also be explored. Class assignments and participation in group discussions will facilitate critical thinking and develop an understanding of the American urban educational experience. PREREQUISITE: DRG-092 or DWT-099 (minimum grade C-) or placement at higher level on the reading or writing placement tests.

EDU-102 INTRODUCTION TO SPECIAL NEEDS 3 CREDITS

Participants gain an understanding of a variety of handicapping conditions. Students also study the laws that ensure educational equity for students with special needs, and instructional and curricular modifications that teachers may be expected to make for students with special needs. Ten hours of documented fieldwork are required. PREREQUISITE: DRG-092 or DWT-099 (minimum grade C-) or placement at higher level on the reading or writing placement tests.

EDU-103 INTRO TO LANGUAGE, LITERACY & LANGUAGE ARTS 3 CREDITS

This is an introductory course that provides the prospective teacher with a basic background in the whole language and phonetic approaches to literacy. The research-based course explores the five pillars of literacy - phonemic awareness, phonics, fluency, vocabulary, and comprehension - along with writing in the language arts as seen in the Massachusetts Curriculum Frameworks for Language Arts and Literacy.

ELECTRICAL ENGINEERING TECHNOLOGY

EET-101 PCS, PROGRAMMING & ROBOTS 2 CREDITS (+1 LAB CREDIT)

This course will provide the student with the basic knowledge about modern PC operation and upgrades as well as introduce them to the world of programming and Robots. The first few weeks of the course will introduce the basic components of a PC with emphasis on upgrade ability. The rest of the course will have students build, program and test their own BoEBot from Parallax. The interation with the BoEBot will demonstrate how the PC is used as a control and

communication portal, how hardware is controlled by software and how, through the use of various sensors, robots can be designed to be autonomous. COREQUISITE: Take EET-101L.

EET-104 SAFETY & HEALTH IN INDUSTRY 1 CREDIT

This course is a cornerstone of preparation for working in an industrial environment. The course will emphasize topics and principles that can be applied in many circumstances to ensure the personal safety of oneself and others. Specific topics will include Safety Laws & Organizations, Personal Protective Equipment, Tool & Machine Safety, Safe Materials Handling, Electrical Safety & Protection, Fire Protection, Health Protection and Safe Work Practices. This course will meet for 5 weeks.

EET-105 TECHNICAL DIAGRAMS FOR AUTOMATION 1 CREDIT

This course will introduce the student to the various technical diagrams which may be found in an automated manufacturing environment. The majority of emphasis of the course will be on electrical & electronic symbols and schematics, relay and ladder logic diagrams. In addition flowcharts, hydraulic and pneumatic diagrams (Fluid Power), piping symbols and diagrams, and HVAC components and diagrams. Microsoft Visio will be presented in this course to create & edit technical documents. This course will meet for 5 weeks.

EET-106 DEVELOPING TROUBLESHOOTING SKILLS 1 CREDIT

This course will present various skills which can aid in troubleshooting electromechanical equipment commonly found in an automated manufacturing environment. Key topics will include effective communication, troubleshooting techniques, aids to troubleshooting, solving electrical & mechanical problems, breakdown and planned maintenance. This course will meet for 5 weeks. PREREQUISITE: EET-104 and EET-105 or permission of instructor.

EET-110 BASIC ELECTRICITY 1 2 CREDITS (+1 LAB CREDIT)

Basic Electricity 1 is the first electrical course students will take in the Electrical Engineering Technology program at STCC. The purpose of the course is to give students a firm foundation in electrical theory. The course covers DC circuit theory with an emphasis on circuit analysis, practical application, and troubleshooting. The thorough presentation and use of laboratory test equipment throughout the course enhances the student's understanding of electricity. This course is offered only in the fall semester. PREREQUISITE: MAT-093 or MAT-087 (minimum grade of C-) or placement at college-level Math; COREQUISITE: Take EET-110L.

EET-120 FLUID POWER TECHNOLOGY 3 CREDITS

This course provides a fundamental understanding of the physical principles of hydraulics and pneumatics in a logical building-block manner, along with a practical working knowledge of the components normally utilized in designing, installing, operating, and maintaining hydraulic pneumatic systems. COREQUISITE: MAT-097 or EET-097 (minimum grade C-) or placement of MAT-091 or higher.

EET-130 FUND OF MOTOR CONTROL 2 CREDITS (+1 LAB CREDIT)

A technologist in the electrical industry may be exposed to a great deal of information. Therefore, fundamentals of motor control, relay logic, and the related electrical theory are presented in a manner that is easy to understand and applicable to on-the-job situations. The theory of control, operation, and design is presented clearly and concisely. Students learn troubleshooting techniques related to real-world situations. PREREQUISITE: EET-110, EET-101 and MAT-124; COREQUISITE: EET-130L .

EET-200 SOLID-STATE ELECTRONICS 2 CREDITS (+1 LAB CREDIT)

Industrial electronics is changing faster than ever because of the rapid changes in the electronics field. Large discrete solid state electronic devices with an emphasis on solid- state devices as they relate to specific applications are studied. Each device will have associated with it a laboratory exercise in order to provide a better understanding of the material at hand. Some of the topics covered will include diodes, diode applications, transistor switches, field effect transistors, DC biasing, switching circuits, thyristors, and voltage regulators. PREREQUISITE: EET-111, ENG-101 and MAT-125 (which may be taken concurrently); COREQUISITE: Take EET-200L.

EET-210 DIGITAL AND LINEAR CIRCUITS 2 CREDITS (+1 LAB CREDIT)

The goal of this course is to provide comprehensive and practical coverage of linear integrated circuits, digital circuits and applications. The extensive troubleshooting coverage and innovative system application serve as very important and necessary links between theory and the real world. It progresses from the fundamental circuit building blocks through to analog/digital conversion systems. The course is divided into two basic parts. The first part of this course will cover linear integrated circuits with considerable emphasis on the operational amplifier. The second will be devoted to the fundamentals of digital circuits. PREREQUISITE: EET-111, MAT-124 and ENG-104 or permission of Department Chairperson; COREQUISITE: Take EET-210L.

EET-235 PROGRAMMABLE LOGIC CONTROLLER 2 2 CREDITS (+1 LAB CREDIT)

This course is the second course in the PLC sequence. Students will take the basic PLC skills they learned in EET-135 and apply them to advance applications which will include process control systems, HMI, analog and digital I/O and proportional-integral-differential controller concepts. In addition, students will learn about modern PLC network topologies and protocols and communication protocols such as DeviceNet and Ethernet/IP. PREREQUISITE: EET-111, EET-130 EET-135.

EET-240 ROBOTICS AND AUTOMATED SYSTEMS 2 CREDITS (+1 LAB CREDIT)

This course is a continuation of the second semester Fundamentals of Robotics. It proceeds into robot applications, work cells, interfacing and programming techniques. Real applications will be studied through student projects, which will be constructed and tested in the lab. Emphasis is given to the students' creativity and ingenuity.

Areas of special interest are: safety, part manipulation, programming, vision, AI and environmental/part sensing systems. Visits to area manufacturers and places of interest may also be a part of this course. PREREQUISITE: EET-140 MAT-124; COREQUISITE: Take EET-240L.

EET-250 CONTROL SYSTEM THEORY
2 CREDITS (+1 LAB CREDIT)

The goal of this course is to provide a state-of-the-art resource on control system technology. This includes the terminology, concepts, principles, procedures, and computations used by technicians to select, analyze, specify, design, troubleshoot, and maintain all established methodology with the aid of examples, calculator and control system components, Laplace transforms, instrument characteristics, signal conditions, and sensors. A laboratory period is included to help amplify the concepts learned in the classroom. Some of the topics covered will include manipulation, control, analysis, and design. PREREQUISITE: EET-210, EET-200, EET-240, ENG-101 and MAT-125; COREQUISITE: Take EET-250L.

EET-260 MICROPROCESSOR APPLICATIONS
2 CREDITS (+1 LAB CREDIT)

This course is directed to the application and use of microprocessors in industry, with emphasis on understanding basic operation, interfacing, and programming. Study includes basic architecture, developmental languages, bus structures, interfacing with peripheral devices, memory, input/output devices, and diagnostics. PREREQUISITE: MAT-125 and EET-200; COREQUISITE: Take EET-260L.

ELE-110 ELECTRONICS FOR TECHNICIANS 1
2 CREDITS (+1 LAB CREDIT)

This course introduces the principles of electricity and electronics. The topics include current, voltage, resistance, series and parallel circuits, schematic diagram reading, open and short circuits, magnetism, capacitance, relays, solenoids, motors and generators, and DC and AC signals. Emphasis will be on the practical application of basic principles and concepts as applied to modern systems and the techniques used to diagnose them. Additional subject matter will include diodes, transistors as control devices, solid state relays, wired logic, and sensor amplifier fundamentals. In the lab portion of the course students will develop the skills to use standard electronic test equipment to aid in the diagnosis of simple and complex electrical and electronic systems. Some circuit simulation will be used in the lab but the primary emphasis is on the use of test equipment on actual circuitry. Student will also develop proper soldering skills through various lab exercises. COREQUISITE: Take ELE-110L.

ELE-111 INTERNET OF THINGS (IOT)
3 CREDITS (+1 LAB CREDIT)

This course is an introduction to the Internet of Things (IOT) which is often called the Internet of Everything (IOE). The Internet of Things concentrates on the connection of various IOT "smart" devices to the traditional data networks. This is a "hands-on" introduction to the Internet of Things, sensors, and common IOT hardware. The course is a blend of electronic principles, the basics of using Raspberry PI and Arduino microcontroller boards, some basic programming concepts, connecting sensors, and sending data across wired and wireless data networks. We will save the data to servers on the Internet, Google spreadsheets, and cloud servers so we can access our data from anywhere in the world. Basic computer skills are required to take this course. No prior programming, electronic, or networking experience is assumed. COREQUISITE: Take ELE-111L.

ELE-120 PRINTED CIRCUIT DESIGN 3 CREDITS

In this course students will form teams to learn and perform electronics industry practice regarding the design fabrication, assembly, and testing of printed circuit boards (PCBS). Student teams will capture, read, and edit schematics, design PCB physical layout, order and receive PCBs, and assemble (including soldering) and test the finished design. Throughout the course student teams will participate in design reviews and regularly report progress and problems to a project manager (instructor). Some aspects ofthe course will parallel ELE-130, Introduction to Project Management. This course is recommended for students interested in creating their own circuit boards to implement electonic maker projects. No prior experience with electronics is required but general experience with personal computers is helpful.

ELE-210 CIRCUIT THEORY 3 CREDITS (+1 LAB CREDIT)

This course and lab will investigate the traditional electronic circuit theories necessary to understand the operation of modem electronic components, circuits and systems. Information will be presented with an emphasis on signal processing application. Topics will include: KYL,, KCL, Superposition, Thevenin & Norton equivalents, real & imaginary numbers, impedance, magnitude and phase response of circuits, filter types & applications, pulse analysis, transient analysis, steady-state analysis, Fourier Analysis, dB measurement and semiconductor fundamentals. Students will use software to simulate circuits and help solve/verify equations. In the lab students will make use of modem test equipment controlled by LabView software to perform data acquisition and then use MS Excel to tabulate, analyze and graph the data. Students will be required to perform the experiments, maintain a lab notebook and submit formal lab reports. PREREQUISITE: ELE-123, ELE-180, and MAT-125; COREQUISITE: Take ELE-210L.

ELE-220 COMMUNICATIONS SYSTEMS
3 CREDITS (+1 LAB CREDIT)

This course consists of a study of modem electronic telecom/communications systems used for the transmission of analog information and data. First, the student is introduced to the basic components of a telecommunications system through a block diagram model. Fundamental concepts of signals, noise, bandwidth, and channel are introduced. Sub-systems which are peculiar to electronic telecommunications systems are covered with emphasis given to the concepts of filter theory, system frequency response, dBs, and signal bandwidth. Specific electronic modulation schemes are now discussed. Emphasis is given to the most important legacy pass-band systems; analog, amplitude and frequency modulation, and the most important present day base-band systems; analog pulse and digital modulation. The theory of operation behind each system, the practical implementation, and the relative merits of each are examined and analyzed completely. The course concludes with a discussion of modem multiplexing and access techniques and, an introduction to EM propagation, wireline transmission line concepts, fiber-optic communications systems, present day telecomm networks,

and basic antenna theory. The lab portion of the course will provide hands-on experience with many of the topics discussed in lecture. COREQUISITE: Take ELE-220L.

ELE-230 WIRELESS NETWORKS 2 CREDITS (+1 LAB CREDIT)

This course will introduce the student to the fundamentals of wireless networks typically used for data transmission applications in an industrial, clinical, or home setting and also those networks used to implement cyber-physical system applications (i.e applications of the Internet of Things or IoT). Starting with an introduction to the concepts of wireless networking, the student is quickly introduced to the ideas of radio frequency (RF) signals, the frequency bands used for networking, and fundamentals of digital modulation techniques. The function of the wireless networking physical layer components (i.e. system hardware: transmitter, receiver, transmission lines, and antennas and the basics of electromagnetic (EM) propagation) are presented and related to the particular wireless system application and associated frequency band of operation. Present day wireless cellular technology (i.e 4G and soon to be implemented 5G) are introduced first and then most prevalent IEEE wireless networking standards (IEEE 802.11.X, IEEE 802.15.X and IEEE 802.16.X are covered. Emphasis is placed on the Wi-Fi networking standard (IEEE 802.11.X) and personal area networking standard (IEEE 802.15.X) for home, industrial, and cyber-physical applications. In lab, students are introduced to basic test and measurement equipment used in this field and the fundamentals of wireless system operation. Additional lab work will include setting up, deployment, and testing of various wireless networks. COREQUISITE: ELE-230L.

ELE-240 SENSORS AND DATA ACQUISITION 3 CREDITS (+1 LAB CREDIT)

This course deals with the practical design and operational theory of sensor and instrument based modem data acquisition and test measurement systems. Topics will include basic sensor theory, advanced electronics instrumentation, signal conditioning and interfacing techniques using op-amp and IC subsystems, measurement techniques and standards, ADC's and DAC's, and the fundamentals of PC and PIC micro-controller based measurement systems. The students will use LabView software in the laboratory portion of the course. PREREQUISITE: CSE-110, ELE-160, ELE-165 and ELE-180; COREQUISITE: Take ELE-240L.

ELE-250 PROJECT RESEARCH & DEVELOPMENT 2 CREDITS

The purpose of this course is two-fold. First, students will investigate key aspects of project development: research, developing design specs, project scheduling, preliminary design/simulation, component selection, construction considerations, prototype development, design verification & testing and design improvement and performance monitoring. Students will investigate these ideas by way of a project example. The second goal for this course is to allow students to complete the first several stages of their capstone senior project design. Students will use the concepts presented in the beginning of the course to select, spec and order the components needed for their senior project in ELE-265. Only students expecting to graduate in the following Spring should take this course. COREQUISITE: Take ELE-210.

ENERGY SYSTEMS TECHNOLOGY

EST-100 THEORY OF CONTROLS 3 CREDITS

A course designed to deal with basic theories and concepts required by both air conditioning and heating servicemen. Topics include: Basic electricity, meters, principles of motor operation transformers and relays, along with an introduction to control circuits. These studies are essential in order that the individual comprehends the control circuits to which he or she will be exposed in future courses. This course is offered only in the fall semester. COREQUISITE: EST-102/102L and MAT-078 or MAT-073 (minimum grade C-) or placement at Algebra I or higher on the math placement test.

EST-101 COMBUSTION CONTROL CIRCUITS 3 CREDITS

Domestic and light commercial heating control system for steam, forced warm air and forced hot water, and the components which makes up each control system are covered in detail. Residential and commercial oil burners and their components, thermostats, and basic trouble- shooting are also covered during this semester. This course is offered only in the spring semester. PREREQUISITE: EST-100.

EST-102 ENERGY SYSTEMS LAB 1 1 CREDIT (+1 LAB CREDIT)

This course deals with the development of the manual and technical skills required in the heat/power/air conditioning industry. Attention is given to current principles and practices that apply to the care and use of hand tools and measuring devices, basic machines, tubing and piping, soldering, equipment services and installation, fundamental electric circuit wiring and field service training. This course is offered only in the fall semester. COREQUISITE: Take EST-102L.

EST-103 ENERGY SYSTEMS LAB 2 1 CREDIT (+1 LAB CREDIT)

An advanced course that is predominantly a toward the student achieving competency in specialized skill areas, including electrical control wiring, oil burner installation and servicing, and heating system-related components installation. Specific lab assignments directed toward installation and setup of residential and commercial control systems. This course is offered only in the spring semester. EST-102; COREQUISITE: Take EST-103L.

EST-200 PRINCIPLES OF REFRIGERATION 2 CREDITS (+1 LAB CREDIT)

The science of refrigeration is based on physics, chemistry, and the transfer of heat which forms the foundation for an understanding of the refrigeration process. After these principles are learned in the first few weeks, emphasis is placed on the refrigeration cycle and its components. A study is made of the properties of the refrigerants that are used in the different applications, and of the instruments that are necessary in the servicing of these systems, both domestic and commercial. Extensive lab assignments also bring to the students a hands-on approach to the analyzing and servicing of refrigeration and air conditioning systems. This course is offered only in the fall semester. COREQUISITE: Take EST-200L.

EST-202 POWER PLANT OPERATIONS 3 CREDITS

An extensive study is made of the complex systems that make up the steam generation plant. Emphasis is placed on: boiler and steam generators and their classification and structural design, applied mechanics and related equipment such as heaters, receivers, pumps and piping systems. Combustion and the transfer of heat released by the burning of fuels requires a study of thermodynamics and the heat capacities of different substances. Steam tables and other charts are used. Chimneys and the mechanical draft equipment required for the combustion process are also studied.

EST-206 MICROPROCESSOR CONTROLS 2 CREDITS (+1 LAB CREDIT)

This course is designed to acquaint the student with microprocessor-based control systems as used on residential, commercial, and industrial applications. A wide range of control devices is studied, ranging from a mechanical thermostat to a fully programmable digital controller. The laboratory portion of this course will provide the student with hands-on experience in the application of commercial and industrial control systems using microprocessor- based and programmable controllers. This course is offered only in the fall semester. PREREQUISITE: EST-101; COREQUISITE: Take EST-206L.

ENGINEERING/SCIENCE TRANSFER

EGR-103 COMPUTER APPLICATIONS IN ENGINEERING 3 CREDITS (+1 LAB CREDIT)

An introductory course in engineering that utilizes various computer applications to assist in the analysis and communication of the design of an engineering assembly. One third of the course will be devoted to Computer Aided Drafting. Three-dimensional wireframe and solid models will be created. Orthographic projections, auxiliary views, isometric views, dimensioning, and assembly drawings will be discussed. The second third of the course will introduce the spreadsheet as an engineering problem solving tool that facilitates complex calculations, rapid graphical analysis, and numerical modeling. The remaining third of the course will be used to introduce design criteria for assembly, and oral and written presentations. The oral presentation will be facilitated using Power Point software. COREQUISITE: Take EGR-103L.

EGR-111 INTRO MATERIALS SCIENCE AND ENERGY 3 CREDITS

A survey of the materials of engineering and the atomic, molecular, and crystal phenomena responsible for their properties. The unifying theme is that the structures of materials determine their properties. Materials considered include alloys, semiconductors, polymers, and ceramics. Homework and tests are designed to build technical vocabulary and facility with tabulated and graphics data in solving basic materials analysis and design problems. PREREQUISITE: CHM-111/111L and MAT-131; COREQUISITE: PHY-231/231L.

EGR-121 MECHANICS 1 3 CREDITS

This is the first mechanics course for engineering majors. It is a vector approach to the solution of equilibrium problems for particles, rigid bodies, and multi-membered structures (frames, machines, and trusses). In order to broaden the scope of problems available for analysis, the student is introduced to the study of friction forces and centroids. Also, for preparation for future mechanics courses, the topics of moment of inertia and shear and bending moments are introduced. PREREQUISITE: MAT-131 and PHY-231.

EGR-221 CIRCUIT ANALYSIS I 3 CREDITS

Mathematical models will be developed to describe the behavior of practical voltage and current sources and resistors, capacitors, inductors, diodes, transistors and operational amplifiers (op-amps). Techniques for the analysis of voltage, current and power relationships among these devices interconnected in circuits will be practiced. Analysis techniques will include Kirchoff's Laws, Loop and Nodal Analysis, the Superposition Theorem and Thevenin's and Norton's Theorems. DC applications (constant in time) as well as AC applications (varying sinusoidally with time) will be considered. Treatment of AC applications will include an introduction to phasor analysis and the concept of complex frequency. PREREQUISITE: MAT-132 and PHY-231; COREQUISITE: Take EGR-225.

EGR-225 LAB: CIRCUIT ANALYSIS 1 1 CREDIT

This course offers laboratory experiments that test the theoretical analysis techniques presented in EGR-221. These experiments involve measurement of voltage and current signals in circuits consisting of resistors, inductors and capacitors. Operational amplifiers (op amps) are also investigated. Laboratory workstations are equipped with current-controlled and voltage-controlled power supplies, signal generators, digital multimeters, oscilloscopes and breadboards for interconnecting discrete devices. Computer Software will be introduced as a tool of analysis. A formal written report is required for each experiment. COREQUISITE: Take EGR-221.

EGR-229 ENGINEERING THERMODYNAMICS 1 3 CREDITS

A classical presentation of thermodynamics including the first and second laws and their application to batch and flow processes. Ideal gas, real gas, graphical, and tabular relationships among the physical properties of substances which are affected by energy transformations including pressure, temperature, volume, internal energy, enthalpy, and entropy. Heat engines, heat pumps, and carnot cycles. PREREQUISITE: MAT-132, PHY-231 and CHM-111.

ENGLISH

DRG-091 READING LEVEL 1 3 CREDITS

Reading 1 offers practice in active reading skills for improved comprehension and efficiency, as well as vocabulary development using a variety of materials from textbooks, literature, and periodicals. Students will be introduced to the STCC Library in this course. This is a developmental course. Credit for this course will not be counted toward fulfilling graduation requirements at STCC.

DRG-092 READING LEVEL 2 3 CREDITS

Reading 2 emphasizes critical reading, addressing general and specific comprehension skills for library research, reading textbooks, technical

material and literature. Vocabulary development focuses on context and structural analysis. This is a developmental course. Credit for this course will not be counted toward fulfilling graduation requirements at STCC. PREREQUISITE: DRG-091 (minimum grade C-) or placement at DRG-092.

DWT-099 REVIEW FOR COLLEGE WRITING 3 CREDITS

This course provides a review of basic English skills in grammar, sentence structure, paragraphing, and essay development to prepare students for college-level writing. The course, intended for students who have had difficulty with written English, provides preparation for ENG-101. A grade of "C-" or better in DWT-099 is required for admission to ENG-101. This is a developmental course. Credit for this course will not be counted toward fulfilling graduation requirements at STCC.

ENG-101 ENGLISH COMPOSITION 1 3 CREDITS

The objective of this course is to improve the student's ability to communicate effectively in writing. Areas covered will include introduction of basic writing patterns, effective construction of paragraphs and essays, and preparation of the documented research paper. PREREQUISITE: DWT-099 and DRG-091 (minimum grade C-) or placement at higher level on the reading or writing placement tests.

ENG-101H HONORS ENGLISH COMPOSITION 1 3 CREDITS

This honors-level Composition I course contains the standard elements of ENG-101. The objective of this course is to improve the student's ability to communicate effectively in writing. Areas covered will include introduction of basic writing patterns, effective construction of paragraphs and essays, and preparation of the documented research paper. See list of objectives and competencies (available from instructor). In addition, students will be required to submit work that is representative of honors-level course work; to that end, more time will be dedicated to developing argumentation and research skills. Among the assignments required will be two documented research papers. All work for the course will be kept in a portfolio and at the end of the semester, students will be required to submit a portfolio review essay critiquing their progress. PREREQUISITE: DWT-099 (minimum grade A-) or placement at ENG-101H.

ENG-102 ENGLISH COMPOSITION 2 3 CREDITS

In this course, students will continue to build upon the critical thinking and writing skills developed in English Composition 1. English Composition 2 is designed to help students deepen their understanding of written texts while improving their writing and research skills. The objective of this course is to strengthen the academic writing skills necessary for the integration and appropriate documentation of readings from literature and/or other academic disciplines. Close reading, class discussions, written assignments (in a variety of rhetorical modes), and the demonstration of research skills (using primary and secondary sources) are required for the successful completion of this course. PREREQUISITE: ENG-101 or ENG-101H (minimum grade C-).

ENG-102H HONORS ENGLISH COMPOSITION 2 3 CREDITS

This honors-level course builds upon the standard description of English Composition 2: students will engage in close reading and class discussion of texts and write essays defending textual interpretations. Interdisciplinary reading and writing assignments will be appropriate to the honors level. A research paper and presentation to the class will be required. PREREQUISITE: ENG-101 (minimum grade A-) or ENG-101H (minimum grade B).

ENG-104 TECHNICAL REPORT WRITING 3 CREDITS

Instruction has been organized to emphasize methods involved in the writing process. Special emphasis has been placed on the factors which report writers must consider & the processes they must follow in writing a report. Students will become acquainted with the techniques of analyzing a writing situation, methods of investigating the problem, organizing the report, and preparing the final copy. PREREQUISITE: ENG-101 or ENG-101H (minimum grade C-).

ENG-106 WRITING FOR STAGE AND FILM 3 CREDITS

The purpose of this class is to learn the craft of playwrighting through writing assignments, self-evaluation, peer-evaluation, and extensive class discussion. Working from a plot assignment, students will write short, three-page scripts that will explore relationships, situations, and emotions. Students will then hear their scripts read back to them in class, followed by class discussions, with room left for the playwright to ask his/her own questions. This class will develop writing skills, listening skills, observational skills, and relationship skills. PREREQUISITE: ENG-101 (minimum grade C-).

ENG-107 INTRODUCTION TO CREATIVE WRITING 3 CREDITS

The emphasis of this course will be on the creation of artistic works, which may include fiction, non-fiction, memoir, and poetry. Students will learn various aspects of characterization, plot development, dialogue, point of view, use of literary devices, and other basic elements that comprise written creative expression. Preparation of a portfolio is required of each student. Final projects will include a class reading of finished pieces and potential publication in the STCC literary magazine. PREREQUISITE: ENG-101 minimum grade of C-.

ENG-110 ENGLISH COMPOSITION 2: JOURNALISM 3 CREDITS

This is an introductory, 3 credit course designed to continue to build on the critical thinking and writing skills developed in English Composition 1, in the context of writing various kinds of articles for a newspaper. The objective of this course is to strengthen the academic writing skills necessary for the integration and appropriate documentation of materials from various academic disciplines. These skills will be practiced focusing on news reporting and feature writing. Demonstration of research skills (using primary and secondary sources) are required for the successful completion of this course. PREREQUISITE: ENG-101 or ENG-101H (minimum grade C-).

ENG-210 AMERICAN LITERATURE: 1620 - 1860 3 CREDITS

The growth of American literature from the Colonial period to the Civil War reflects major developments in American thought, beliefs, and values. Such writers as Bradford, Bradstreet, Edwards, Franklin, Hawthorne, Emerson, Thoreau, and Stowe will be the basis of our close, critical reading and discussion, representing our literary and intellectual heritage. PREREQUISITE: ENG-102 or ENG-102H (minimum grade C-).

ENG-211 AMERICAN LITERATURE: 1860 - PRESENT 3 CREDITS

Readings of American fiction, poetry, and drama from the Civil War to the present, ranging from Whitman, Dickinson, Twain, James, Frost, Hemingway, Faulkner and several contemporary writers. This course continues the survey of American literature from the same critical perspective as ENG-210. PREREQUISITE: ENG-102 or ENG-102H (minimum grade C-).

ENG-225 CHILDREN'S LITERATURE 3 CREDITS

Children's Literature is an elective one-semester survey course. Students read and analyze picture storybooks, folklore, children's poetry, and young adult novels. Selections are multicultural. PREREQUISITE: ENG-102 or ENG-102H (minimum grade C-).

ENG-226 MAGIC IN LITERATURE 3 CREDITS

Magic is defined as the influencing of everyday events through the use of supernatural forces. This course focuses on works of fiction that utilize various components of magic to illustrate the life-changing effect of magical elements, including dragons, potions, spells, and wands, on the human condition. The genres will include novels, short stories, and films. PREREQUISITE: ENG-102 (minimum grade C-).

ENG-227 MODERN HORROR 3 CREDITS

The horror genre is characteristic of both fiction-writing and film. In both mediums, authors look deep into the psyche of our culture to find our darkest fears. Arguably, no author does this better than the world-renowned author Stephen King. Often referred to as "The Master of Horror," this course offers an in-depth look into Stephen King's writing style and his influence upon both the literary and film worlds today. Students will analyze his works to uncover the literary devices that King uses to tap into what makes us most afraid. PREREQUISITE: ENG-102 (minimum grade C-).

ENG-240 SEX & SEXUALITY IN WESTERN LITERATURE 3 CREDITS

This course will focus on the diverse ways issues of sex and sexuality have been played out on the textual stage of Western literature. Armed with critical frameworks (including Foucault's History of Sexuality), students will grapple with the continuum of sexualities depicted in literary works as well as the medicalization of sexuality originating in the 19th century and continuing into the present day. The primarily 19th and early 20th century readings will be weighted towards those sexualities that have been historically marginalized including what we now term gay/lesbian/and bisexual. These texts will span the genres of poetry, drama, fiction and non-fiction, and include works by Chaucer, Shakespeare, William Bradford, Christina Rossetti, Tennyson, Melville, Oscar Wilde, EM. Forster, D.H. Lawrence, Virginia Woolf Radclyffe Hall, and Tennessee Williams. Historical contextualization will be offered by the writings of Krafft-Ebing, Havelock Ellis, and Freud. PREREQUISITE: ENG-102 or ENG-102H (minimum grade C-).

ENG-245 NON-WESTERN LITERARY VOICES 3 CREDITS

This course promotes a greater understanding of non-Western cultures through the reading and discussion of fiction, poetry, plays, and non-fiction from regions such as Africa, the Middle East, South Asia, and East Asia. Literacy selections will be studied in relation to their cultural context and their expression of universal human experience. PREREQUISITE: ENG-102 or ENG-102H (minimum grade C-).

ENGLISH AS A SECOND LANGUAGE

ESL-084 INTERMEDIATE ESL GRAMMAR 3 CREDITS

This grammar course is intended for students who have a high/intermediate level of English. It is assumed that the students who have enrolled in EESL-086 have either successfully completed courses EESL-080 through ECNV-085 or have been tested and placed into the Level 3 curriculum. EESL-086 is given jointly with ERDG-087 and EWRT-088. The focus will be on complex verb forms, syntactical structures, and mechanics. Please note: Level 3 courses EESL-086, ERDG-087 and EWRT-088 are part of an intensive unit. A grade of "C" or better in all three courses must be attained to pass on to the next level. If a student fails to achieve a grade of "C" or better in any one of these courses, all three of the courses must be repeated. COREQUISITE: Take ESL-086 and ESL-088.

ESL-086 INTERMEDIATE ESL WRITING 3 CREDITS

This course is designed to meet the needs of students who have to attain a high intermediate level of English. It is given in conjunction with EESL-086 & ERDG-087. The course will provide practice in writing paragraphs and essays, moving from very simple to more complex topics. The emphasis is on writing in various methods of discourse, grammar and mechanics. A grade of "C" or better is required to pass this course. Please note: Level 3 courses EESL-086, ERDG-087, and EWRT-088 are part of an intensive unit. All three must be taken together. A grade of "C" or better in all three must be attained to pass on to the next level. If a student fails to achieve a grade of "C" or better in any one of these courses, all three of the courses must be repeated. This is a developmental course. Credit for this course will not be counted toward fulfilling graduation requirements at STCC. PREREQUISITE: Placement at ESL-086; COREQUISITE: Take ESL-084 and ESL-088.

ESL-088 INTERMEDIATE ESL READING 3 CREDITS

This reading course is intended for students who have a high/intermediate level of English and is given jointly with EESL-086 and EWRT-088. The focus of this course is on the development of vocabulary, reading comprehension, and critical thinking. Students are required to read textbook material which covers a variety of cultural and/or literary material. Exercises to test comprehension

and to review grammar and syntax will also be included. In addition, students will be asked to do outside readings from which may include newspaper articles as well as a fiction or non-fiction book. Students will demonstrate their understanding of these materials by way of oral and written discussions. A grade of "C" or better in all three courses must be attained to pass on to the next level. If a student fails to achieve a grade of "C" or better in any of these courses all three of the courses must be repeated. This is a developmental course. Credit for this course will not be counted toward fulfilling graduation requirements at STCC. PREREQUISITE: Placement at ESL-088; COREQUISITE: Take ESL-084 and ESL-086

ESL-094 ADVANCED ESL GRAMMAR 3 CREDITS

This grammar course is intended for students who have mastered a high-intermediate level of English. It offers a comprehensive review of Level 2 and 3 structures, such as perfect verb tenses, modal auxiliaries, the passive voice, and compound/complex sentences. Students practice the verb tenses in integrated exercises. The review of complex syntactical patterns also covers appropriate mechanics. New grammar encompasses more advanced forms; future perfect tenses, noun clauses, gerunds, infinitives, modal perfects, unreal conditionals, and the subjunctive mode are covered. This is a developmental course. Credit for this course will not be counted toward fulfilling graduation requirements at STCC. PREREQUISITE: ESL-084; COREQUISITE: Take ESL-096 and ESL-098.

ESL-096 ADVANCED ESL WRITING 3 CREDITS

This course is intended to continue in the ESL student's development of the writing process providing needed practice in preparation for English Composition 1. It offers an in-depth review of paragraph and essay development. New material emphasizes expository essay writing for academic purposes which is focused on a selection of major rhetorical modes. A review of the Library online catalog as well as an introduction to academic research using library databases is also part of the curriculum of this course. PREREQUISITE: ESL-086; COREQUISITE: Take ESL-094 and ESL-098.

ESL-098 ADVANCED ESL READING 3 CREDITS

This course is intended to continue the ESL student's development of the reading process in preparation for college level reading in English. Four basic areas are emphasized: reading for pleasure, developing comprehension and critical thinking skills, expanding vocabulary , and reading faster. Student centered individual and group activities are used extensively in the classroom. Students chart their progress in terms of increasing reading rate. This is a developmental course. Credit for this course will not be counted toward fulfilling graduation requirements at STCC. PREREQUISITE: ESL-088 COREQUISITE: Take ESL-094 and ESL-096.

FIRE PROTECTION & SAFETY TECHNOLOGY

FST-101 FIRE PROTECTION & FIRE PREVENTION 4 CREDITS

An introduction to fire science, with an emphasis on protection. This course includes a historical survey of fire services, principles of flame and smoke spread, flammable liquids, gases, explosions, residential and industrial hazards. It also provides an overview of residential and commercial fire safety inspections, safety demonstrations, extinguishing techniques, and public and news media relations. This course is offered only in the fall semester.

FST-110 BLDG CONSTRUCTION 3 CREDITS

An exploration of building construction and design with emphasis focused on fire protection concerns, review of statutory and suggested guidelines, local, state, and national. This course is offered only in the fall semester. PREREQUISITE: FST-101.

FST-131 ADVANCED PROTECTION SYSTEMS 3 CREDITS

This course is a continuation of FST-130 and it is presented for those people interested in advanced fire control systems. Sprinkler systems will be given a great amount of attention in this course. This course is offered only in the fall semester. PREREQUISITE: FST-130.

FST-220 INTRO TO FIRE INVESTIGATION 3 CREDITS

This course concerns the history development and philosophy of fire investigation and detection. Including inspection techniques, gathering evidence and development of technical reports, fundamentals of arson investigation, processing of criminal evidence and criminal procedures related to various state and local statutes. This course is offered only in the spring semester. PREREQUISITE: FST-101.

FST-230 HAZARDOUS MATERIALS 3 CREDITS

This course includes a review of basic chemistry, storage and handling of hazardous materials, laws, standards and fire fighting practices within extreme fire hazard areas. Demonstrations will illustrate and supplement the class work. Required for graduation. This course is offered only in the fall semester.

FRENCH

FRE-101 ELEMENTARY FRENCH 1 3 CREDITS

This is an introductory course for students with little or no previous background in French. Students are introduced to the French alphabet, diacritical marks, and phonics system. Basic grammar, vocabulary building, reading comprehension, and writing are also introduced. Basic listening comprehension skills and conversational skills are developed. The class is conducted in French as much as possible. PREREQUISITE: Placement at ENG-101 or its equivalent or permission of instructor.

FRE-102 ELEMENTARY FRENCH 2 3 CREDITS

This course is a continuation of FRE-101. Students build on grammar skills i.e. present, past, and future tenses of verbs, expand vocabulary, reading comprehension and writing paragraphs and short compositions. Short stories and poetry are covered in class. Students expand their listening and speaking skills. The class in conducted mostly in French. PREREQUISITE:FRE-101.

Credit Course Descriptions

GRAPHIC COMMUNICATION & PHOTOGRAPHY

GAT-122 DIGITAL WORKFLOW 2 CREDITS (+1 LAB CREDIT)

This lecture and lab course presents the various techniques, both traditional and electronic, of prepress preparation for printing. The lecture portion of the course will cover the specific requirements of image reproduction, including an overview of equipment materials, software, and technique. The process of laying out a print job in the most efficient and economical configuration will be emphasized. In the lab portion, students will be introduced to traditional pre-press techniques, including contacting, camera work, and film image assembly. Precision, calibration, and quality evaluation will be stressed. COREQUISITE: Take GAT-122L.

GAT-125 TYPOGRAPHY AND LAYOUT DESIGN 2 CREDITS (+1 LAB CREDIT)

Typography & Layout Design is a course designed to introduce students to the basic elements of type, design, and page layout. The lectures will cover the history, specification, and aesthetics of type, both as text and design elements. The fundamentals of page layout will be covered with a focus on the effective visual presentation of type and images. In the labs, students will begin with the basics of designing & producing traditional art work and proceed to digital design and layout using current software. An emphasis on clean, functional design will be stressed. COREQUISITE: Take GAT-125L.

GAT-131 GRAPHIC COMMUNICATIONS 2 CREDITS (+1 LAB CREDIT)

Graphic Communications is comprehensive overview of the printing industry. This course will introduce the students to the world of contemporary printing through a series of lectures. A study of printing history, an examination of how various technologies evolved; and a look at present-day printing processes will provide the student with a foundation for all other courses offered in Graphic Communications Department. Lab portion of graphic communications course will cover the standard graphic software and print media equipment. Students will do variety projects dealing with print media. COREQUISITE: GAT-131L.

GAT-135 ADVERTISING AGENCY MANAGEMENT 3 CREDITS

In this course, the student will learn the basic principles for setting up and managing a full-service advertising agency. The primary elements of the course will include the purpose of the five types of ad agencies and their unique characteristics and structure. The course will incorporate the basic business models used in the day-to-day operation of an agency including the managerial structure for both the business and creative aspects. Students will learn how marketing research interfaces with advertising, classification of advertising, and the various media available to achieve the goals of an integrated advertising campaign. Also covered will be media research, selection, and planning, media buying, budgeting, proposal development and presentation. This course is offered only in the fall semester. PREREQUISITE: MKT-101 GAT-263 GAT-162 GAT-125.

GAT-150 INTRODUCTION TO PROFESSIONAL PHOTOGRAPHY 2 CREDITS (+1 LAB CREDIT)

An introduction to photography using computer-based technologies, as well as learning about the history and aesthetics of photography. The student will learn how to use professional photographic and studio lighting equipment. In addition, the student will use professional software for image processing and output (both black and white and color). There will be many demonstrations covering a wide variety of photographic techniques. Students are given picture-taking assignments to develop their composition and perspective skills, and to promote creativity. Critiques, both private and public, are held to provide students feedback regarding their work. COREQUISITE: Take GAT-150L and GAT-151.

GAT-151 DIGITAL PHOTOGRAPHY/ STUDIO MODULE 2 CREDITS

Digital Photography Studio Module is an introductory digital photography course instructing students on the safe and proper operation of the department's digital cameras, studio lighting equipment, and printers. There will be many hands-on, on-site demonstrations that will give students experience that will prepare them for higher level digital photography courses. COREQUISITE: Take GAT-150.

GAT-155 MACINTOSH OPERATING SYSTEMS 2 CREDITS (+1 LAB CREDIT)

Since the Apple Macintosh computer has become a staple "tool" for electronic prepress, learning proper operating procedures and maintenance are essential for all Graphic Arts Technology students. This hands-on lecture course explores system software basics, including all five Macintosh microprocessor generations,disk management, files & folders, menus & hierarchies, System & Finder, loading & updating software, Mac OS X applications & utilities,font usage, file formats, file sharing & networking, troubleshooting, connecting peripherals & printing, andthird party utilities used in today's digital industry. Students final project will be a multimedia presentation usings Apple software. Note this course & lab are web-assisted. COREQUISITE: Take GAT-155L.

GAT-160 INTRODUCTION TO WEB DESIGN 2 CREDITS (+1 LAB CREDIT)

This lecture and laboratory course is designed to introduce the concepts of the world wide website design and development. Students will learn the basics of HTML programming to create a home page that incorporates graphic, textural, and aesthetic perspectives. Each student will design a home page as part of the course. The present and future status of the world wide web will be discussed. Basic computer skills are required. COREQUISITE: Take GAT-160L.

GAT-162 DIGITAL IMAGING-PHOTOSHOP 2 CREDITS (+1 LAB CREDIT)

Using Macintosh computers, students will learn to use current versions of the industry-standard digital image manipulation programs, Adobe Photoshop and Adobe Lightroom. Students will learn how to properly prepare digital images for a wide variety of output considerations and to improve the aesthetic quality of digital

images. In addition, students will learn how to realistically create and modify digital images using sound graphic design principles for both print and screen applications. Students will develop professional digital retouching and restoration, compositing, and a wide variety of advanced digital imaging techniques. Students will also learn the basic principles of image capture and color management. COREQUISITE: Take GAT-162L.

GAT-174 AIRBRUSHING TECHNIQUES 1
2 CREDITS (+1 LAB CREDIT)

This studio course is an introduction to the materials, processes, and aesthetic considerations in airbrushing. Students will create a series of airbrushed paintings on a variety of substrates that emphasize individual expression, technical development, principles of pictorial composition and visual representation. No previous art background is required. This course is offered only in the fall semester. COREQUISITE: GAT-174L.

GAT-220 COLOR REPRODUCTION PROCESSES
2 CREDITS (+1 LAB CREDIT)

This course is a three-credit lecture and laboratory course devoted exclusively to the reproduction of color images. The course will begin by exploring some of the many of the fascinating aspects of color, including the nature of light and color perception. From there, the course will delve into the world of color measurement and specification, including a look at various color spaces such as the Munsell and CIELAB. Topics also covered will include color printing characteristics, color standardization, hi-fi color, color proofing, and color management. The laboratories will be a combination of demonstrations and hands-on experiences including colorimetry, color evaluation, color scanning, image- setting, and proofing. The aim of this course is to develop the skills required of graphic arts professionals to make critical and accurate color judgments. This course is offered only in the fall semester. PREREQUISITE: GAT-162; COREQUISITE: Take GAT-220L.

GAT-236 PACKAGING DESIGN CONCEPTS
2 CREDITS (+1 LAB CREDIT)

In this course, students will learn the aspects of the packaging industry and the array of materials and processes used in the design and production of packaging for consumer goods. Lectures will include the fundamentals of package construction, graphic design and production and the package's relationship to the product itself. Laboratory projects will incorporate design concepts, layout execution, and preparation of production art for boxes, bottles, clamshell packages, labels, and specialty packages. Students will learn design and production techniques for shipper-displays and point of sale displays. PREREQUISITE: GAT-125 GAT-155 GAT-263 GAT-162; COREQUISITE: GAT-236L.

GAT-250 PHOTOGRAPHIC ILLUSTRATION
2 CREDITS (+1 LAB CREDIT)

An advanced photography course allowing students to express themselves through photography and to create their own personal point of view. The student will develop strong artistic and advanced digital imaging compositing skills. Fine art photography, still life photography, fashion photography, and photojournalism will be emphasized. Students will produce a series of fine art photography projects, including some that will be self-directed. Additionally, students are encouraged to study and create innovative photographic techniques. Critiques are held to provide the student feedback regarding his/her work. This course is offered only in the fall semester. PREREQUISITE: GAT-152 or permission of instructor; COREQUISITE: Take GAT-250L.

GAT-252 LOCATION PHOTOGRAPHY
2 CREDITS (+1 LAB CREDIT)

An advanced photography course concentrating entirely on location photography. The student will learn how to utilize existing light, reflectors, and scrims to produce professional quality commercial and fine art photographic images. The student will become skilled using speedlights, both on and off the camera, and the many modifiers that are available for small flash photography. In addition, the student will use portable, professional on-location flash lighting, applying their in-studio lighting experience for on-location shoots. The student will learn how to make proper lens choices based on the location's constraints. Students will produce a series of projects, including some that will be self-directed. Critiques are held to provide the student feedback regarding her/his work. This course is offered only in the fall semester. PREREQUISITE: Take GAT-152/152L, or by permission of the instructor; COREQUISITE: GAT-252L.

GAT-260 DIGITAL PRESS PRODUCTION
2 CREDITS (+1 LAB CREDIT)

This course will familiarize the student with the theory and operation of the Canon Digital press. The technical components of these presses will be detailed emphasizing the advantages and limitations of the process, enabling the student to maximize his/her design capabilities. Printing substrates will be presented in detail along with color matching systems. Laboratory exercises will familiarize the student with opeation of a digital press. PREREQUISITE: GAT-131; COREQUISITE: Take GAT-260L.

GAT-263 DIGITAL ILLUSTRATION TECHNIQUES
2 CREDITS (+1 LAB CREDIT)

This lecture and laboratory course covers the rendering of images for illustration. Students will learn the techniques of drawing with a computer. In the lecture part of the course the topics discussed will include visual composition, form, space, perspective, color and a bit of modern art history, as well as Postscript and EPS format. The laboratory portion of the course will focus on exercises and projects using the Adobe Illustrator vector-based drawing program and the Adobe Acrobat PDF program. COREQUISITE: Take GAT-263L.

HEALTH & FITNESS

ATH-110 YOGA FOR HEALTH **1 CREDIT**

This course will provide an introduction to Yoga and meditation techniques for beginners. Students will be introduced to the history and philosophy of yoga, elementary yoga asanas, breathing techniques, meditation, creative visualization as a tool for stress reduction, and develop a 45 minute beginner yoga routine.

IND-115 HEALTH AND WELLNESS 3 CREDITS

An introductory health and wellness course that explores the basic components of a healthy lifestyle including healthy behavior, nutrition, exercise, relationships, and environmental awareness. PREREQUISITE: DWT-099 & DRG-091 (minimum grade of C-) or placement at higher-level.

MLT-112 MEDICAL LABORATORY SAFETY (5 WEEKS) 1 CREDIT

This course introduces allied health students to medical safety rules and OSHA guidelines. Strict observances of these rules and practices is essential in the medical field. An understanding and implementation of these rules are necessary before beginning work in the clinical laboratory, phlebotomy, and related work areas. This course will make the student aware of the hazards he or she will encounter, how to successfully prepare for an inspection. Recommended for all allied health students, and required for Clinical Laboratory Science students. COREQUISITE: Take MLT-110 and MLT-110L.

PTA-101 INTRODUCTION TO PHYSICAL THERAPY 1 CREDIT

This course presents an introduction to and broad background on the profession of physical therapy. It is designed for the student beginning the PTA program or considering application to it. PREREQUISITE: DRG-092 (minimum grade of C-), or placement at higher level in reading.

HEALTH INFORMATION TECHNOLOGY

HIT-110 HEALTH OFFICE BASICS 3 CREDITS

This course will provide the student with an introduction and overview of types of medical providers, day to day operations, customer service and privacy regulations that they will encounter in a health care setting. The student will have a general understanding of ethical issues and the law as they apply to operations and patient care in a health setting. Interpersonal skills in a health care setting will also be explored.

HIT-111 HEALTH OFFICE ADVANCED 3 CREDITS

This course will provide the student with an introduction and overview of health information management in a medical office setting, focusing on medical records, insurance and billing procedures. The student will have a basic understanding of banking transactions and the financial management of a medical office as well as the fundamentals of human resources. PREREQUISITE: HIT-110.

HIT-120 INTRODUCTION TO DIAGNOSTIC CODING 1 4 CREDITS

This course is a comprehensive study of ICD-IO-CM. It will involve an in-depth study of diagnostic coding of diseases for all the major body systems. Specifically, coding guidelines and techniques will be applied to coding scenarios. PREREQUISITE: MED-100.

HIT-122 INTRODUCTION TO PROCEDURAL CODING 3 CREDITS

This course is a comprehensive study of CPT-4 procedural coding. Outpatient and professional coding for evaluation and management, anesthesia, surgery, pathology, laboratory, radiology and medicine will be emphasized. This course will also explore coding for emergency rooms, physicians' offices, professional services at inpatient facilities and outpatient facilities. PREREQUISITE: MED-100.

HIT-125 HEALTH INFORMATION MANAGEMENT FOR HEALTH INFORMATION TECHNOLOGY STUDENTS 3 CREDITS

This course will introduce the health information technology student to health care delivery systems, health information management, the patient record in acute, outpatient and alternate care settings, numbering and filing systems, record storage and circulation, indexes, registers, health data collection, legal aspects and reimbursement.

HIT-130 ELECTRONIC HEALTH RECORDS 2 CREDITS

This course will provide the student with an understanding of the impact an Electronic Health Records system has on patient care and workflow processes in a health care setting. The course will focus on providing the student with the foundational knowledge of EHR systems, a practical perspective on how an EHR system effects the health care setting and hands-on experience using an EHR product.

HIT-155 HEALTH CLAIMS AND INSURANCE 2 CREDITS

This course is designed to develop knowledge of various health insurance policies and plans. The student will become proficient in health insurance terminology and concepts. Managed care models, as well as government, state, and commercial insurance will be compared and contrasted. The course will also cover worker's compensation, disability, and Tricare. Insurance forms and documentation for health claims reimbursement and billing will be utilized. Reimbursement calculations for DRG capitation, fee for service, risk accounts, Medicare, and Medicaid, and private insurance will be examined. The course will examine the billing process, claim adjudication, managing insurance and patient accout receivable and collection activity.

HIT-206 PREPARATION FOR THE CERTIFIED CODING ASSISTING EXAM 1 CREDIT

This course will prepare the Health Information Technology student to take the Certified Coding Assistant (CCA) examination administered by the AHIMA. This examination is required by many employers for entry-level coding positions. A review of all PREREQUISITE material will prepare the student to successfully pass the CCA exam. The student will be introduced to the test-taking experience, the construction of the text, the content of the test, and the test in a timed environment. PREREQUISITE: HIT-125 and HIT-130, HIT-260, HIT-265.

HIT-255 LAW AND ETHICS IN HEALTHCARE 3 CREDITS

This course analyzes the legal and ethical concepts in health information management. This course focuses on the study of legal and ethical principles applicable to health information, patient care and health records. Topics include: the study of law in general and the working of the American legal system, courts and legal procedures,

principles of liability, ethical standards and decision making and challenges from an ethical perspective, patient record requirements, access to health information, confidentiality and informed consent, the judicial process of health information, specialized patient records, risk management and quality assurance, HIV information, and the electronic health record. Restricted to HIIM.AS students. Minimum grade of C is required to pass course.

HIT-265 ADVANCED MEDICAL CODING 3 CREDITS

This course is a continuation of ICD-9-CM, CPT, and HCPCS. Students will be introduced to advanced coding procedures involving the coding of diseases and procedures from medical records. PREREQUISITE: HIT-120 and HIT-122.

HIT-266 FIELD STUDY INTERNSHIP MCBS 3 CREDITS

This co-op will give the student work experience in the Health Information Technologies program. The student may gain experience as a medical coder, medical biller or a patient account representative. PREREQUISITE: HIT-265.

HIT-267 PROFESSIONAL PRACTICE EXPERIENCE 3 CREDITS

This course will allow students to perform beginner and advanced functions of a health information management (HIM) department. Students will work in an actual work environment in a traditional setting. Activities will include application of all HIT coursework. The student will also learn professional skills to prepare them for employment in the HIM career field. The Professional Practice Experience is a competency based learning experience in acute, ambulatory or long-term care facilities. Students demonstrate knowledge and skills in record content, abstracting, electronic medical record, filing, analyzing, legal aspects of records, coding and other functions. 150 onsite hours are required. PREREQUISITE: HIT-120, HIT-122, HIT-125, HIT-145.

HIT-269 RHIT EXAM PREP 1 CREDIT

This course will prepare the student to write to AHIMA national RHIT examination by strengthening key competencies learned in HIT courses. The course will cover many sample exam questions as well as practice exams. PREREQUISITE: Completion of all HIT courses with a "C" or better. PREREQUISITE: HIT-145, HIT-126, HIT-255, HIT-130 and HIT-260.

HEALTH SCIENCE

HSC-110 COMM AND PROFESSIONALISM IN HEALTHCARE 3 CREDITS

Communication is key to successful patient relationships and health outcomes, and it is essential for navigating the business of healthcare. Emphasis in this course is placed on learning to communicate effectively in the healthcare environment, compliance with regulations and developing a professional presentation. Additionally, students will explore requirements of various health fields and the professional skills required to be an effective healthcare provider. Topics will include instruction in effective study practices, critical thinking processes and exposure to healthcare technologies.

HSC-150 PATIENT CARE AND SAFETY 2 CREDITS (+1 LAB CREDIT)

This course will introduce the core components to patient care and the importance of safety in the workplace. It is essential that all health care professionals understand the importance of safety in the workplace for maintaining the health and safety of patients, health care professionals and others. This course will explore safety in the work place, infection control, body mechanics for self and when treating patients along with CPR and First Aid. The course will also cover patient care including communication, vital signs, and patient assessment and critical thinking through case based learning in a virtual hospital setting and through patient simulation. COREQUISITE: Take HSC-150L.

SMC-125 EMT BASIC 5 CREDITS (+2 LAB CREDITS)

The EMT course covers all emergency medical concepts and techniques currently considered to be within the responsibilities of the EMT-Basic (EMT-B) providing emergency care in a pre-hospital setting as set forth by the Office of Emergency Medical Services for the Commonwealth of Massachusetts. This course meets or exceeds course requirements established by the U.S. Department of Transportation and the Massachusetts Office of Emergency Medical Services. The course will also cover topics related to future trends and care methodologies in emergency medicine. COREQUISITE: SMC-125L.

SMC-161 STERILE PROCESSING TECHNICIAN 6 CREDITS

This course provides the fundamentals of central service supply, processing, and distribution (CSD). Instruction and practice is given in aseptic technique. Patient centered practices and theories, customer service, and overall policies and practices of the central service supply departments. Students who successfully complete this course are eligible to take the International Association of Healthcare Central Service Material Management (IAHCSMM) and/or Certification Board for Sterile Processing and Distribution (CPSPD) certifying exam(s). Three lecture and 6 laboratory hours. COREQUISITE: Take SMC-161L.

HISTORY

HIS-100 SURVEY OF EARLY WESTERN CIVILIZATION 3 CREDITS

Origin and development of western civilization from the Stone Age through the classical civilization of the ancient world. The contributions of each major historical group through the emergence of modern Europe will be explored with emphasis on the social, economic and political trends of each period. PREREQUISITE: DRG-092 or DWT-099 (minimum grade C-) or placement at higher level on the reading or writing placement tests.

HIS-101 SURVEY OF MODERN WESTERN CIVILIZATION 3 CREDITS

Modern Western Civilization from the end of the Middle Ages to the present. Begins with 14th Century Europe and discusses the

beginnings of modern science; the Enlightenment and the political revolutions in England, America and France; the industrial and intellectual revolutions of the Nineteenth Century; the World Wars of the Twentieth Century and developments which follow in the post-war period. PREREQUISITE: DRG-092 or DWT-099 (minimum grade C-) or placement at higher level on the reading or writing placement tests.

HIS-105 CULTURAL GEOGRAPHY 3 CREDITS

This course studies contemporary world cultures and their interrelationships with geographic structure and regions, to gain a global perspective on current world events. Content includes human origins and distribution; population, migration, health, climate, culture, language, settlement, industry, and agriculture. The course will seek to introduce students to the diversity of human life, cultures, and ways of life across the globe. PREREQUISITE: DRG-092 or DWT-099 (minimum grade C-) or placement at higher level on the reading or writing placement tests.

HIS-110 SURVEY OF U.S. HISTORY & GOVERNMENT 3 CREDITS

History of the United States from the Colonial period to the end of the Civil War and Reconstruction. A topical approach is followed within a chronological framework centering on the colonial origins of American society, its separation from England, the subsequent process of nation building, framing of the Constitution, formation and structure of the United States government, and the development of the Civil War during the Ante-Bellum period. PREREQUISITE: DRG-092 or DWT-099 (minimum grade C-) or placement at higher level on the reading or writing placement tests.

HIS-111 SURVEY OF MODERN U.S. HISTORY 3 CREDITS

History of the United States from the end of the Reconstruction period to the present. Consideration will be given to the impact of the Industrial Revolution on Late Nineteenth Century America and the influence of war and reform on the nation during the Twentieth Century. A social cultural and new political approach will be utilized. PREREQUISITE: DRG-092 or DWT-099 (minimum grade C-) or placement at higher level on the reading or writing placement tests.

HIS-115 INTRO TO AFRICAN AMERICAN HISTORY: COL-1865 3 CREDITS

The purpose of the course is to introduce the student to the history of the African-American in the United States. Beginning with an exploration of the African heritage, the course will explore the social, economic and political role of Afro- Americans from the colonial period through 1865. The course will also examine the development of black culture in the United States, the diversity of this culture, and its contribution to American culture in general. PREREQUISITE: DRG-092 or DWT-099 (minimum grade C-) or placement at higher level on the reading or writing placement tests.

HIS-125 THE HOLOCAUST 3 CREDITS

The Holocaust will focus upon the Perpetrators, Beneficiaries, Bystanders, and the Victims of the Nazi genocidal effort against Europe's Jewish population and others that Hitler regarded as a threat to his biocratic vision. The unique role of Adolf Hitler and the assorted professors and professionals who made such mass murder possible will be explored in detail. In addition, the increasing understanding of the tremendous support Hitler enjoyed among women in particular, and the German population in general, will be thoroughly examined and considered. Special attention will be devoted to the reaction of the United States, Great Britain and other European countries to the growing evidence of the widespread nature of Hitler's Final Solution as World War II raged on. Students will be asked to evaluate whether or not they believe widespread collaboration with the Nazis took place. Moreover, students will be asked to compare this tragic event with other genocidal events and mentalities. Lastly, students will be made aware of the heroic efforts of Raphael Lemkin in defining, preventing, and punishing acts of genocide. PREREQUISITE: DRG-092 or DWT-099 (minimum grade C-) or placement at higher level on the reading or writing placement tests.

HIS-130 WOMEN IN HISTORY 3 CREDITS

This course will trace the history of women in America. It will focus on their economic, political and social roles as America moved from being an agrarian society to an industrial one. The course will also examine the historical role of women after World War I and the influence of the civil rights movement on the late 20th century women's movement. Primary sources will be used in this course. PREREQUISITE: DRG-092 or DWT-099 (minimum grade C-) or placement at higher level on the reading or writing placement tests.

HIS-154 SOCIAL CHANGE IN THE 1960S 3 CREDITS

Few periods in the United States history experienced as much change and turmoil as the "Long Sixties" (1954-1975), when powerful social movements overhauled American gender norms, restructured the Democratic and Republican parties, and abolished the South's racist "Jim Crow" regime. This course examines the movements that defined this era. We will explore the civil rights and Black Power movements; the student New Left and the antiwar movement; the woman's and gay liberation movements; struggles for Asian American, Chicano/a, Native American, and Puerto Rican freedom; as well as the rise of conservatism. The course will feature classroom discussion on assigned readings, lectures, films, and a group research project based on interpretation of documents housed in Du Bois Library Special Collections. Throughout the semester, we will assess Sixties social movements' ideals, strategies, and achievements, and their ongoing influence upon U.S. politics, society, and culture. PREREQUISITE: DRG-092 or DWT-099 (minimum grade C-) or placement at higher level on the reading or writing placement tests.

HONORS COURSES

HNR-205 THE COMIC SPIRIT 3 CREDITS

The Comic Spirit: Perspectives on Humor and Laughter, an Honors Program seminar, offers students a broad-based inquiry into the related concepts of comedy, humor and laughter. It approaches these subjects from a mostly literary (and mostly Western) perspective with close study of comic drama and fiction, but the course will also consider film and television, cartoons, philosophy, psychology,

sociology, and the physiology of laughter. The goal of the course is to help students reach fuller and more complete answers to the questions: What is humor? What makes people laugh? What makes something funny? Who decides? This course is restricted to students in the Honors Program. PREREQUISITE: ENG-102.

HNR-209 THE SCIENCE OF SEX & SEXUALITY 3 CREDITS

Human sexuality has been taboo for many years in virtually all cultures. This course aims to peek under the sheets in the most intimate of settings. Through the use of anatomy, physiology, endocrinology, neuroscience, psychology, and sociology, we will delve into the difference between genetic XX and XY, the observable male vs. female, and the mental masculine vs. feminine. Do sex and gender equate? How does sexuality play into this? Can science explain what it means to be transgendered? This course will take us through the human journey starting with embryonic development of the genitalia, moving to the development of the male/female brain, through secondary sexual development during puberty, into development of sperm and egg, the mechanics of intercourse, and end with fertilization of the next generation.

HNR-211 PROJECT MANAGEMENT 3 CREDITS

This Honors course will present an interdisciplinary viewpoint on Project Management methodology. Students will be introduced to the concepts of Project Management including, but not limited to, the four phases of project life cycle, as well as the key components of the project management process. Students will learn about different types of project management methodologies and see how each is applied in practice. Leading change fundamentals, based on Kotter's change model, will also be discussed. Additionally, students will gain an understanding of matrix management and conflict resolution strategies. Problem solving, decision making, and negotiation techniques will also be covered to hone students' critical reasoning skills. Students will be able to immediately apply the concepts learned in this course by analyzing case studies, performing hands on simulation exercises, and planning their own projects while following the correct methodology. Ultimately, this course will provide students with comprehensive Project Management principles that can be applied to any field.

HNR-212 DYSTOPIA: SCIENCE, FEAR & THE ARTS 3 CREDITS

Science and art just can't seem to get along! Throughout history, stories of fallen societies due to advances in technology have scared societies from embracing new technologies. Why are the arts so afraid of these breakthroughs? This course aims to answer this question. Through various aspects of art, Dystopia attempts to understand why, as a society, we are so skeptical, so fearful of science. This interdisciplinary course will attempt to explain the historical breakthroughs of science that we so often feared at the same time by the societies that they were meant to help. Selections may include Aldous Huxley's Brave New World and the Eugenics movement of the early 20th century, The Island, as a result of human cloning, and Pink Floyd's The Wall, as a reaction to increasing automation.

LANDSCAPE DESIGN & MANAGEMENT

LAN-100 PRINCIPLES OF HORTICULTURE 2 CREDITS (+1 LAB CREDIT)

A basic course in general horticulture, introducing the student to the fundamentals of plant growth factors including soils, insects and diseases, and plant production techniques. The lectures cover the theoretical aspects of horticulture and the laboratories are used for hands-on work with plant in the greenhouse as well as field trips to horticultural businesses that employ graduates. Two one-hour lectures, one three-hour lab. COREQUISITE: Take LAN-100L.

LAN-110 TREES IN LANDSCAPE 3 CREDITS (+1 LAB CREDIT)

A course dealing in tree identification and use, as related to landscape work. Important types, both native and introduced, are discussed. Limited to trees generally hardy in the New England area. Representative types are discussed during laboratory sessions. Lectures deal with general topics concerning tree use. Field trips, both on and off campus are used to view the trees discussed. Three one-hour lectures, and one three-hour lab. COREQUISITE: Take LAN-110L.

LAN-200 SUSTAINABLE LANDSCAPE PRACTICES 2 CREDITS (+1 LAB CREDIT)

A course dealing with the newest technologies and current "Best Practices" for managing, installing and maintaining sustainable landscapes. Topics covered will include tree evaluation, pruning, site evaluation and plant selection, fertilization, construction protection, planting and maintenance of landscapes. Students will also be exposed to interpretation and varied uses of landscape plans. COREQUISITE: Take LAN-200L.

LAN-210 SHRUBS IN LANDSCAPE 3 CREDITS (+1 LAB CREDIT)

A continuation of LAN-110, covering identification and use of the commonly used native and introduced shrubs and vines in this area. Emphasis placed upon the best use of the types involved. Lectures are concerned with utilization of plant features such as flowers and fruits and with effects of the environment on the plants discussed. Laboratories are used for the discussion of specific plants and field trips. Three one-hour lecture and three one-hour lab. COREQUISITE: Take LAN-210L.

LAN-220 LANDSCAPE DESIGN 1 1 CREDIT (+2 LAB CREDITS)

A course in the residential landscape design stressing basic measuring design techniques and elements. Topics covered in lecture are line, shape, form, texture, pattern color, the processes of design, the development of outdoor living areas, play areas, private gardens and the orientation of structures on the site. One one-hour lecture, two two-hour labs. PREREQUISITE: LAN-115; COREQUISITE: Take LAN-220L.

LAN-225 LANDSCAPE OPERATIONS 3 CREDITS

A course dealing with the basic aspects of starting, staffing and operating a typical landscaping business through the year. Additional materials will include landscape contracts and law. Students will be concerned with operations through the seasons of the year, and with

practices such as business ethics, purchasing, scheduling of work operations, and personnel issues. Three hour lectures.

MANAGEMENT

MGT-101 PRINCIPLES OF MANAGEMENT 3 CREDITS

This course provides the student with an introduction to the art and science of management. A detailed analysis is made of the planning, organizing, leading, and controlling functions. Particular emphasis is placed upon the decision-making process. PREREQUISITE: DRG-092 or DWT-099 (minimum grade C-) and MAT-073 (or placement at higher levels).

MGT-230 BUSINESS ETHICS 3 CREDITS

This course introduces students to the relationship between business and society. Topics include corporate citizenship, identification and analysis of stakeholder issues, business ethics fundamentals, business influence on government and the public sector, ethical issues in the global arena, workplace issues, and employment discrimination and affirmative action. Upon completion, students should be able to apply ethical principles and guidelines to business decision making. PREREQUISITE: MGT-101.

MGT-260 ORGANIZATIONAL BEHAVIOR 3 CREDITS

This course examines the key factors that influence and impact human behavior in organizations. The principles of behavioral science are used to interpret, analyze, and predict individual, group, and organizational behavior. In addition, an emphasis is placed on the actions managers can take to improve individual and organizational performance. PREREQUISITE: MGT-101; and take SOC-101 OR PSY-101.

MARKETING

MKT-101 PRINCIPLES OF MARKETING 3 CREDITS

This course emphasizes a well-rounded basic approach that provides maximum exposure to the role of marketing in today's economy which is a marketing economy-not just for marketers of conventional products and services, but also for government, social institutions and social causes and the professions. To achieve this exposure, an overview is presented of the marketing process including marketing research, consumer behavior, market segmentation, target consumers, product strategy, packaging, branding, pricing and the promotional mix. The course will service two types of students-those who want a knowledge of marketing fundamentals, principles and activities to meet specific personal or professional needs, and those who plan a career in marketing. PREREQUISITE: DRG-092 or DWT-099 (minimum grade C-) and MAT-073 or MAT-074 or placement at higher levels.

MKT-250 DIGITAL MARKETING 3 CREDITS

Basic marketing concepts will be applied to e-commerce. These concepts include market research, consumer behavior, market segmentation, target consumers, product strategy, branding, pricing, and promotional mix. An introduction to strategic, tactical, and operational planning aspects of the marketing process will also be covered. The unique reasons e-commerce consumers make purchases will be compared and contrasted to the reasons consumers in general make purchases. Attention will also be given to promoting a website. Sample sites will be analyzed, and possible strategies for enhancing exposure developed. PREREQUISITE: MKT-101.

MATHEMATICS

MAT-078 PRE-ALGEBRA 3 CREDITS

Topics include whole numbers and the place value system, operations of whole numbers and order of operations, fractions and mixed numerals, operations with these numbers, and applications. Additional topics include decimal notation, percent notation, and conversions between decimal, fractional, and percent notation, ratio and proportion, applications, and problem solving, basic statistical measures, units of linear measurement, American and metric systems, and geometric formulas and applications. Also included is an introduction to Algebra, including the real number system and operations of integers. Credit for this course will not be counted toward fulfilling graduations requirements at STCC.

MAT-079 PRE-ALGEBRA FOR MATH SUCCESS 4 CREDITS

This is a lecture and project based course that will meet for a total of six hours per week. The teaching methodology employed in this course utilizes a series of projects and interactive computer assignments to promote learning. Topics include whole numbers and the place value system, operations of whole numbers and order of operations, fractions and mixed numerals, operations with these numbers, and applications. Additional topics include decimal notation, percent notation, and conversions between decimal, fractional, and percent notation, ratio and proportion, applications, and problem solving, basic statistical measures, units of linear measurement, American and metric systems, and geometric formulas and applications. Also included is an introduction to algebra, including the real number system and operations of integers. This is a developmental course. Credit for this course will not be counted toward fulfilling graduation requirements at STCC. Students must achieve a C- or better to pass the course.

MAT-087 ALGEBRA 1 3 CREDITS

Topics include the real number system, operations of real numbers, simplification of algebraic expressions, solving equations and inequalities. Topics also include graphing of linear equations, slopes, equations of lines, and graphing inequalities in two variables, systems of linear equations, applications and problem solving. Additional topics are exponents, scientific notation, and operations with polynomials. Credit for this course will not be counted toward fulfilling graduations requirements at STCC. PREREQUISITE: MAT-078 or MAT-073 (minimum grade C-) or placement at Algebra I on the math placement test.

MAT-089 EXTENDED ALGEBRA 1 4 CREDITS

This is a lecture course in elementary algebra with a review of Pre-Algebra that will meet for a total of six hours per week with a focus on student-centered learning techniques. Review topics include whole numbers, operations of whole numbers and order of operations,

fractions and mixed numerals, decimals, and percent notation. Topics include the real number system, operations of real numbers, simplification of algebraic expressions, and solving equations and inequalities. Topics also include graphing of linear equations, slopes, equations of lines, and graphing inequalities in two variables, systems of linear equations, applications and problem solving. Additional topics are exponents, scientific notation, and operations with Polynomials. This is a developmental course. Credit for this course will not be counted toward fulfilling graduation requirements at STCC. Students must achieve a C- or better to pass the course. PREREQUISITE: MAT-078, MAT-079 or MAT-073 (minimum grade C-) or placement at Algebra I on the math placement test.

MAT-095 ELEMENTS OF MATHEMATICS 3 CREDITS

This is a unique course with a format that allows the student to progress at his or her own pace. New students are assigned a beginning math level and textbook based on their placement test results. Returning students pick up wherever they ended the previous semester. Students may study on their own, with instructors and tutors available to answer questions on an individual basis. Each student is assigned an instructor and a particular class time, and may use the Testing Center and Tutor Center Monday-Friday 8:00 a.m. - 3:00 p.m. Students take tests whenever they feel ready and the test center is open. Tests are computer generated, and corrected and graded immediately for the students. Students are then given a copy of the original test and a copy of the correct answers to take with them. Single credit grades are issued for completed credits only. It is possible to earn three or more credits or fewer than three credits in one semester. Students who earn more than three credits in one semester will not be charged for more than three in any given semester. These credits are below college level, do not carry graduation credit, and are non-transferable. This is a developmental course. Credit for this course will not be counted toward fulfilling graduation requirements at STCC.

MAT-097 ALGEBRA 2 3 CREDITS

Topics include factoring polynomials, solving quadratic equations, applications and problem solving, and simplifying complex rational expressions. Additional topics are radical expressions, radical equations and applications, the quadratic formula, graphs of quadratic equations, and functions. Credit for this course will not be counted toward fulfilling graduations requirements at STCC. PREREQUISITE: MAT-087 (minimum grade C-) or placement at Algebra II on the math placement test.

MAT-098 ALGEBRA 2 FOR STEM MAJORS 4 CREDITS

This is a pre-college level lecture course for Algebra 2, with a focus on STEM (Science, Technology, Engineering, and Mathematics) preparation. Topics include polynomials and factoring, as well as operations with radical and rational expressions. Topics also include graphs of quadratic, exponential and logarithmic equations with applications and problem solving. Functions and trigonometry will also be investigated. This is a developmental course. Credit for this course will not be counted toward fulfilling graduation requirements at STCC. PREREQUISITE: take MAT-083 or MAT-087 or MAT-089; minimum grade C- or placement level MAT-081, MAT-091, or higher.

MAT-099 EXTENDED ALGEBRA 2 4 CREDITS

This is a lecture course in elementary algebra with a review of topics that will be used in science and engineering classes. This class will meet for a total of six hours per week with a focus on student-centered learning techniques. Review topics include fractions and mixed numerals, operations with polynomials, scientific notation, ratio and proportion, basic statistical measures, geometric formulas and unit conversions. Topics include factoring polynomials, solving quadratic equations, applications and problem solving, and simplifying complex rational expressions. Additional topics are radical expressions, radical equations and applications, the quadratic formula, graphs of quadratic equations, and functions. This is a developmental course. Credit for this course will not be counted toward fulfilling graduation requirements at STCC. Students must achieve a C- or better to pass the course. PREREQUISITE: MAT-089, MAT-083 or MAT-087 (C- or higher) or placement at Algebra II on the math placement test.

MAT-100 CONTEMPORARY MATHEMATICAL APPLICATIONS 3 CREDITS

This is designed to be an applications course for certain technologies. The emphasis is on solving real-world problems pertaining to those technologies by applying arithmetic, algebraic and geometric concepts previously learned. Utilizing the TI-30x scientific calculator to solve problems involving SI metrics, unit analyses, formulas, and mensuration will also be covered. Restricted to Landscape, Construction Management, Graphic Arts, and Energy Systems students ONLY. It is not recommended for students planning to transfer to a four-year institution. PREREQUISITE: MAT-087 (minimum grade C-) or placement at a higher level on the math placement test.

MAT-101 MATH IN A MODERN SOCIETY 3 CREDITS

This course is designed primarily for General Studies and Liberal Arts Transfer students, and is intended to provide a background in the contemporary applications of mathematics to a wide variety of problems. The excitement of contemporary mathematical thinking will be shared with the non-specialist, to develop students' capacity to engage in logical thinking and to read critically technical information, which is abundant in contemporary society. Students will use mathematical models for problem solving in three broad areas: The Digital Revolution; Management Science; and Your Money and Resources. PREREQUISITE: MAT-089, MAT-087 or placement at MAT-091 or higher.

MAT-115 STATISTICS 3 CREDITS

Descriptive methods of collecting, organizing, analyzing, and presenting categorical and numerical data. Elementary probability theory, estimation, and hypothesis testing. This course is transferable to four-year colleges. PREREQUISITE: MAT-089 or MAT-087 (minimum grade C-) or placement of MAT-091 or higher.

MAT-115H HONORS STATISTICS 1 3 CREDITS

This honors-level Statistics course covers the standard description for a section of MAT-115; descriptive methods of collecting, organizing, analyzing, and presenting categorical and numerical data. Elementary probability theory, estimation, and hypothesis

testing. It also covers additional topics such as probability methods, additional discrete distributions, linear regression and population proportions. The objective of this course is to go beyond the basic concepts of statistics and to include more emphasis on analyzing and presenting data. Students will be required to submit a project that indicates a thorough understanding of sampling methods, analysis and presentation. PREREQUISITE: MAT-083, MAT-089 or MAT-087 (minimum grade B) or placement of MAT-091 or higher.

MAT-122 APPLIED MATHEMATICS 1 3 CREDITS

Topics include a review of algebra; linear equations and inequalities, matrices, systems of equations; linear programming; and probability. PREREQUISITE: MAT-099, MAT-093 or MAT-097 (C- or better) or placement at college-level on math placement test.

MAT-124 TECHNICAL MATH 1 4 CREDITS

First of a two-part sequence for technology students in a math-related field. Topics include ratio, proportion, variation, fractions, fractional equations, functions and graphs, right triangle trigonometry, vectors, solution of linear equations, determinants, factoring, algebraic functions, laws of sines and cosines, graphs of trigonometric functions and complex numbers. PREREQUISITE: MAT-093 or MAT-097 (C- or better) or placement at college-level on math placement test.

MAT-125 TECHNICAL MATH 2 4 CREDITS

Logarithms, systems of nonlinear equations, inequalities, variation, progressions, trigonometric identities and equations, inverse trigonometric functions analytical geometry, introduction to differential and integral calculus. PREREQUISITE: MAT-124.

MAT-127 CALCULUS FOR BUS, LIFE AND SOC.SCI 1 3 CREDITS

Introduction to calculus with applications to business, life, and social sciences. Functions and graphs, limits, the derivative, techniques of differentiation, curve sketching, maximum/minimum problems, exponential and logarithmic functions, exponential growth and decay. PREREQUISITE: MAT-093 or MAT-097 (C- or better) or placement at college-level on math placement test.

MAT-130 PRECALCULUS 4 CREDITS

An intensive one-semester integrated review of the algebraic and trigonometric concepts necessary for calculus using a functional approach. Algebraic topics include linear, quadratic, polynomial, rational, and inverse functions. Transcendental topics include trigonometric, inverse trigonometric, exponential and logarithmic functions. Graphing is emphasized as an aid to visualization of the various functions. Conic sections are introduced. PREREQUISITE: MAT-124.

MAT-131 CALCULUS 1 4 CREDITS

Topics include straight line, conic sections, inequalities, functions and graphs, including trigonometric, exponential and logarithmic functions; limits and continuity; differentiation of algebraic and transcendental functions; maxima/minima theory; related rates; differentials. Computer based labs are an integral part of the course. PREREQUISITE: MAT-125 or MAT-130 (Minimum grade C-).

MAT-132 CALCULUS 2 4 CREDITS

Topics include antiderivatives, indefinite and definite integration, the Fundamental Theorem of Calculus, integration techniques, differential equations, infinite series and Taylor Polynomials. Computer based labs are an integral part of the course. PREREQUISITE: MAT-131 (minimum grade C-).

MAT-220 DISCRETE STRUCTURES 4 CREDITS

This course is a study of the discrete structures of Mathematics. They include propositional calculus, quantification, sets, functions, sequences and series, number theoretic functions, proofs-direct and indirect, induction, combinatorics, discrete probability, recurrence relations, equivalence relations, partial orderings, graphs, paths and finite state machines. PREREQUISITE: MAT-132 (minimum grade C-).

MAT-233 CALCULUS III 4 CREDITS

Topics include polar coordinates, multivariable calculus: 3-dimensional coordinate systems and surfaces from Rn to Rm; limits and continuity; partial differentiation; chain rule; the gradient: directional derivatives; maxima and minima; multiple integration and applications; vector calculus: line integrals surface integrals; Green's Theorem; Divergence Theorem; Stroke's Theorem. Computer labs illustrating basic concepts are an essential part of the course. PREREQUISITE: MAT-132 (minimum grade C-).

MAT-240 LINEAR ALGEBRA 3 CREDITS (+1 LAB CREDIT)

Geometric vectors; vector spaces, systems of linear equations; inner product spaces; linear transformation and matrices; determinants; eigenvalues and eigenvectors. PREREQUISITE: MAT-132 (minimum grade C-); COREQUISITE: MAT-240L.

MAT-255 DIFFERENTIAL EQUATIONS 4 CREDITS

Classical methods of solution of first order and linear higher order ordinary differential equation LaPlace Transform and Power Series solutions of linear ordinary differential equations. Matrix solutions to linear systems of ordinary differential equations. Numerical methods of solution of first order ordinary differential equations using the digital computer. Computer labs illustrating basic concepts are an essential part of the course. PREREQUISITE: MAT-233 (minimum grade C-) or permission of instructor.

MECHANICAL ENGINEERING TECHNOLOGY

MET-100 ESSENTIALS FOR MANUFACTURING TECHNICIANS 3 CREDITS

This course will provide the student with the foundational concepts and skills required for a successful career in a manufacturing environment. The major topics to be discussed will be Blue print interpretation, shop math, measuring techniques, and computer skills. The student will also begin to create a resume and learn interviewing skills to be used in pursuit of internships and/or employment after graduation.

Credit Course Descriptions

MET-101 INTRODUCTION TO ENGINEERING TECHNOLOGY 3 CREDITS

This course is an introduction to the concepts of Engineering and Engineering Technology. The major topics to be discussed will be the role that an engineering technologist plays in developing and manufacturing a world-class product. Some of the critical skills required of the technologist are problem solving, teamwork, business communication and effective writing. The student will be introduced to these skills and will learn to apply then to the basic concepts of product design and quality concepts associated with a manufacturing environment. Use of computer application software to solve problems in Engineering Technology will be emphasized. The focus will be on continuous improvement methods brought about by the computer. The student will become familiar with using spreadsheets, word processing, presentation software, and other software for various industrial and manufacturing problems related to industrial environments. Team projects in conjunction with lab assignments are designed to reinforce key engineering principles. PREREQUISITE: MAT-079, MAT-073 or MAT-078 (C- or better) or placement at Algebra I on the math placement test.

MET-120 METROLOGY & GEOMETRICS 2 CREDITS (+1 LAB CREDIT)

This course introduces the student to three key concepts within the quality function: the metrology system, measuring and gauging, and geometric dimensioning and tolerancing (GD&T). Topics to be discussed include managing the metrology system, calibration procedures and standards, types of measuring equipment, instrument classification, analysis and presentation of measurement data, measuring and gauging geometric tolerances. Emphasis is placed on GD&T theory and discussions, based on ANSI Y 14.5M-1994, including measurement of flatness, straightness, roundness, cylindricity, parallelism, perpendicularity, concentricity, position and runout. Lab experiences demonstrate key principles discussed in lecture. PREREQUISITE: MAT-078 (minimum grade of C) or placement at higher level on the math placement test. COREQUISITE: Take MET-120L.

MET-132 CAM APPLICATIONS 1 3 CREDITS (+1 LAB CREDIT)

This course does not involve operation of CNC machinery. It is intended for students that already have hands-on CNC machining experience, so CNC simulators are used. The emphasis of CAM Applications 1 is placed on learning to use CAM software to select tools, manipulate part geometry, and convert screen toolpaths into a CNC program. Students learn the CAM graphical interface to apply proper manufacturing techniques to produce CNC code. 3D Solid CAD models are used throughout the course. The CNC file is downloaded to a virtual version of the machine tool and the part is manufactured using computer simulation. After part creation, students document the event and discuss strategies for cycle improvement or corrective action. PREREQUISITE: Take MET-150 or MET-152; COREQUISITE: Take MET-132L.

MET-141 MATERIALS SCIENCE 3 CREDITS

The Materials Science course will provide the student with knowledge of engineering materials including Metals and Metal Alloys, Polymers, Ceramics and Composites. The course begins with a study of the categories and properties of engineering materials used in current design and manufacturing. Mechanical and physical properties are explored in detail including property enhancement techniques. Introductory concepts of metallurgy are explored so that students gain understanding of the relationship between metal microstructures and mechanical behavior. Students are taught the basics of material selection from the vast choices of available engineering materials including use of material databases. The course includes optional field trips to local materials testing laboratories. PREREQUISITE: MAT-087 (minimum grade C) or placement at college-level math.

MET-142 MANUFACTURING PROCESSES 3 CREDITS

The Manufacturing Processes course will provide the student with knowledge of methods currently used to fabricate many types of parts and assemblies from prototype to low and high volume production for industries. The course begins by studying various parts casting processes and methods and ends covering thermoplastic, thermoset and elastomer part molding processes. Other manufacturing processes include: hot working metals, cold working metals, non-traditional processes, joining processes, Metrology, CNC and non-CNC metal machining and non-metal forming processes. i.e., plastics. Aside from the course's text, there will be supplemental handouts, in class instructional videos for the student. The course includes optional ½ day field trip(s) for the student to travel to local manufacturing companies which the field trips will supplement the course material that is presented in the classroom.

MET-150 FUNDAMENTALS OF CNC 2 CREDITS (+1 LAB CREDIT)

This course is an introduction to the fundamental concepts of Computer Numerical Control (CNC). The importance of numerical control to manufacturing and productivity is discussed with respect to different types of CNC systems. Coverage includes writing simple programs to perform contouring and hole operations for typical milling machining centers. Programs will also be written for lathe operations including turning, facing and threading. The student will be instructed in the set-up and operation of both a CNC mill and lathe. Emphasis is placed on developing an understanding of typical G and M codes used in modern CNC machinery. Throughout the course, students will be required to perform calculations for speeds and feeds for various tooling. In addition, students will calculate the necessary coordinate data as it relates to the Cartesian coordinate system. PREREQUISITE: MAT-079, MAT-073 or MAT-078 (C- or better) or placement at Algebra I on the math placement test; COREQUISITE: Take MET-150L.

MET-152 INTRODUCTION TO CNC MACHINING 1 CREDIT (+2 LAB CREDITS)

This course is designed to prepare students for an entry level position as a CNC operator or setup technician. Its covers fundamental concepts of CNC including CNC operation, setup, and basic program editing. All topics will be introduced in lecture and reinforced with practical application during lab. Students will manufacture all parts of a simple assembly using industry standard CNC machinery. This course focuses on three axis CNC milling and two axis CNC turning. Emphasis is placed on setting work and tool offsets, verifying CNC

program, first article inspection, and adjusting offsets to bring part dimensions into blueprint specification. Students will learn standard G and M coding and create basic CNC programs to understand how the Cartesian Coordinate system applies to CNC mills and lathes. Standard milling tools will be discussed. Students will design processes to manufacture parts based on a given blueprint specification. They will determine stock size, tool selection, and calculate optimum cutting speeds and feeds. PREREQUISITE: MAT-079, MAT-073 or MAT-078 (C- or better) or placement at Algebra I on the math placement test; COREQUISITE: MET-152L.

MET-160 ENGINEERING GRAPHICS WITH SOLID WORKS 2 CREDITS (+1 LAB CREDIT)

The purpose of this course is to instruct the student in the feature-based, parametric solid modeling system called Solid Works. The course begins with an overview of Solid Work's sketching environment where students learn to create 2D objects such as lines and arcs. Definition is then added to the sketch including numerical dimensions and geometric relationships. Solid features are created including extrusions and features of revolution. Students are instructed in the creation of workplanes and placed features so that complicated solid models can be designed. Solids are then arranged into assemblies. Engineering drawing documentation is introduced in accordance with the ASME Y14.5 standards. The course ends with a review and discussion of the SolidWorks Certification Exam (CSWA). PREREQUISITE: MAT-078,MAT-073 or MAT-079 (minimum grade C-) or placement at Algebra I on the math placement test; COREQUISITE: MET-160L.

MET-161 SOLID MODELING FOR MECHANICAL DESIGN 1 3 CREDITS (+1 LAB CREDIT)

This course is a continuation of Engineering Graphics with SolidWorks. The beginning of the course includes orthographic projection, sectioning, and assembly drawings emphasizing the ASME Y14.3 standard. The course continues with learning the fundamentals of ASME Y14.5 including dimensioning, tolerancing of mating parts using standard ANSI fits, and geometric tolerances. Projects are assigned to present the concepts of mechanical design principles using the CAD system. Both inch and metric applications are used. Students are required to analyze design concepts and comment on their feasibility. PREREQUISITE: MET-160 (C or better; completed within the last two years or permission of the instructor); COREQUISITE: Take MET-161L.

MET-224 STATICS AND STRENGTH OF MATERIALS 4 CREDITS

This course begins by studying the fundamentals of static equilibrium. Topics included are resultants of force systems, tension and compression, moments, and shear and bending moment diagrams. The course then proceeds to the study of stress and strain as produced by the application of forces on beams, cross-sections are emphasized. The influence of material selection on shear, bearing, bending, and torsional stresses is emphasized. Also included is the analysis of beam and torsional deflections including thermal deformation. PREREQUISITE: MAT-124 MET-141.

MET-227 QUALITY CONCEPTS 2 CREDITS (+1 LAB CREDIT)

This course covers the evolution, current trends, and future direction of the quality initiatives that support a world class manufacturing organization. Topics to be discussed include Quality terms, concepts, and principles; Quality benefits, philosophies, and modes; and Continuous Improvement Concepts and tools. Discussion will include Key theories of Shewhart, Deming, Juaran, Crosby, Feigenbaum, and Ishikawa with respect to their philosophies and implementation strategies. Different models of implementation such as ISO 9000,QS 9000, and the Malcolm Baldrige Quality Award will be studied. Continuous Improvement techniques relating to Human Resources and Motivational Theory, Inspection and Testing, NCM cycle, Calibration, Auditing, and methods and techniques utilized in statistical process control (SPC) will be discussed. Lab exercises utilizing Microsoft Excel are designed to demonstrate key principles discussed in lecture. PREREQUISITE: MET-100 or MET-101 (minimum grade of C); COREQUISITE: Take MET-227L.

MET-230 CAM 2 3 CREDITS (+1 LAB CREDIT)

CAM 2 continues the technology learned in CAM 1. After a review of CAM 1, students learn how to create parts which require special fixtures and multiple operations. 3D Solid models are used exclusively throughout the semester to parallel state-of-the-art manufacturing environments. Standard machine holding devices such as vises and chucks are included with the fixtures as students graphically create the operation setups for a CNC mill and lathe. In addition, fourth-axis mill programming is included in the semester. PREREQUISITE: MET-130 (C or better, must have completed within last two years or permission of the instructor); COREQUISITE: Take MET-230L.

MET-261 SOLID MODELING FOR MECHANICAL DESIGN 3 CREDITS (+1 LAB CREDIT)

This course is a continuation of solid modeling for Mechanical Design I. Advanced features of the parametric solid modeling CAD system are covered including configurations, design tables, and exploded assemblies. Projects are assigned that emphasize mechanical design principles including design analysis, tolerancing of mating parts, and design improvement. Proper engineering documentation is emphasized including the implementation of engineering change orders. An introduction to engineering analysis is also included. PREREQUISITE: MET-161 (C or better, must have completed within last two years or permission of the instructor); COREQUISITE: Take MET-261L.

MET-267 ADVANCED ENGINEERING APPLICATIONS 2 CREDITS (+1 LAB CREDIT)

This course is intended to help the student develop analysis and problem solving skills. Advanced problems in both CAD and CAM will be presented with the intention of student teams proposing various solutions to these problems. Students will be required to work together with limited guidance from the instructor in an effort to advance their knowledge of CAD and CAM. In order to recognize the need for and engage in lifelong learning, students are required to research a topic in CAD or CAM not previously taught in the program and present a teaching demonstration to their classmates. COREQUISITE: Take MET-267L.

Credit Course Descriptions

MEDICAL ASSISTING

MED-100 MEDICAL TERMINOLOGY 1 3 CREDITS

This course will provide students with a foundation to recognize medical terms using the four word part approach (prefix, word root, suffix, combining vowel). This will prepare the student to better understand and master the terminology related to health care delivery. Emphasis will be placed on improving written and oral communication skills pertaining to medical terminology. The student will experience real life applications of medical terminology through the use of pathology, and history and physical forms from actual hospital records as well as television medical dramas and movies. A working knowledge of medical terminology is desirable for anyone entering one of the health science fields.

MED-102 HUMAN BODY IN HEALTH AND DISEASE 3 CREDITS

This course is designed to provide students with a fundamental understanding of basic anatomy, physiology and pathology for the major body systems. Students will be introduced to each of the major body systems; structure, function and disease of each system will be presented. Discussion about disease prevention, diagnostic procedures and treatment modalities will also be included.

MED-105 MEDICAL OFFICE ADMINISTRATION I 3 CREDITS

This course is designed specifically to introduce the Medical Assistant to a wide variety of medical office administrative procedures, such as scheduling appointments, creating and maintaining medical records, performing office inventory, mailing and shipping, and routine maintenance of office equipment. Students will be introduced to office computer hardware and software; they will learn basic word processing and formatting techniques in order to create professional business communications. Students will also become proficient in the use of electronic healthcare records. PREREQUISITE: Demonstrated proficiency in keyboarding; completion of OFFS-100 or score of OFFS-110 on keyboard placement exam.

MED-115 PHARMACOLOGY 3 CREDITS

This introductory course covers pharmaceutical references and sources, legislation relating to drugs, classifications and actions, trade and generic names of drugs. The course reflects current and commonly used practices, procedures, medications, and drug preparations. Effects of drugs and their side effects on body systems will be explored.

MUSIC

MUS-101 MUSIC APPRECIATION 1 3 CREDITS

A survey course for the general student in which significant works from the several periods of music history will be heard and discussed. This course will be open to all students at the College Outside listening and reading assignments will be scheduled and attendance at live concerts will be encouraged.

MUS-120 HISTORY OF MUSIC 3 CREDITS

This course will focus on the history and influence of the Western Music tradition. Forms and styles of music from the Middle Ages to the present will be examined in relation to the timeline of historical events. Representative works by (noted) composers will be listened to and discussed.

MUS-122 HISTORY OF ROCK 3 CREDITS

The course will address both the history and aesthetics of America's unique contribution to music - Rock. Study of both the music's origins and its historical and stylistic phases will be complemented with careful listening and analysis. Great emphasis will be placed upon the contributions and biographies of individual artists whose musical visions helped to shape and re-define the music in successive generations. The role of improvisation in combination with other common musical practices will be considered, in exploring the contributions of great rock soloists.

MUS-130 INTRODUCTION TO PIANO 3 CREDITS

A beginning piano course for adult students without prior musical knowledge or skills. The course will combine both music theory and a laboratory skills program with major emphasis on the basic structure of keyboard music. Melody, chords, rhythm, form, dynamics and style will be studied by the student at the keyboard and discussed in lecture sessions. Students will be encouraged to proceed as their individual abilities permit, requiring considerable individualization of instruction as they gain technical mastery. Open to all students at the College.

MUS-140 VOICE 3 CREDITS

Through singing exercises, students will work to improve their breathing, pitch, posture, expression, and knowledge or musical theory. Students will practice a variety of songs, culminating in a final recital.

OFFICE INFORMATION TECHNOLOGY

OIT-100 BASIC KEYBOARDING SKILLS 1 CREDIT

This course is designed for any individual wishing to develop touch keyboarding skills applicable to today's sophisticated computer keyboards. A minimum touch keyboarding speed of 20 wpm is required for course completion. Available to the entire STCC community.

OIT-111 COMMUNICATIONS/EDITING 2 3 CREDITS

This course is a continuation of Communications/Editing 1 (OIT-110). Continued emphasis will be on preparing professionally written business documents for a variety of purposes using current technology. Students will also acquire project management skills and experience. Three lecture hours. PREREQUISITE: OIT-110.

OIT-130 OFFICE MANAGEMENT PROCEDURES & THEORY 3 CREDITS

This course emphasizes the skills students need to meet the challenges of the constantly changing workforce. The importance of developing an effective professional image, appropriate self-management, and the importance of working successfully in teams

will be discussed. The course also stresses development of essential administrative professional skills including written and verbal communications, global communications, paper and electronic records management, event planning, travel arrangements, workplace mail and copying. Emphasis is also placed on the development of soft skills such as etiquette, self-management, teamwork, ethics, leadership, and customer service.

OIT-140 CAREER PREPARATION/SOFT SKILLS 1 CREDIT

This course is designed to prepare students with the soft skills that are essential to long-term success in the workplace. Soft skills are attitudes and behavior that relate to critical thinking, problem solving, communication, collaboration, and presentation skills. Through a combination of engaging workbook activities and video episodes, students will use technical skills for career preparation, clean up online personas, improve written communication skills in emails, and understand the importance of teams in the workplace. One lecture hour. Available to the entire STCC community.

OPTICS & PHOTONICS

LEO-100 LAB AND LASER SAFETY 1 CREDIT

In this course, students will learn the subject of electrical and laser safety in laboratory settings and industry. Students will learn to recognize, evaluate, and control for (1) electrical hazards as recommended by National Institute for Occupational Safety and Health (NIOSH) Guide to Electrical Safety and Health for the Electrical Trades and (2) laser hazards as recommended by the Laser Institute of America's (LIA) ANSI Z136.1 Safe Use of Lasers standard. Each LEO student is required to complete this course and pass an online examination before taking any laser laboratory courses. This course is offered only in the fall semester.

LEO-110 INTRO TO OPTICS AND PHOTONICS 3 CREDITS

In this introductory course, students will be introduced to the field of optics and photonics and the many exciting applications and career opportunities possible. Students will learn about optics, lasers, fiber optics, electro-optics and integrated photonics by drawing from the latest cutting edge applications in precision manufacturing, aerospace, biomedical device, medicine, 3D sensing, display technology, communications, astronomy and many others. Classroom lectures will be supplemented with demonstrations, hands-on activities, independent research projects, company tours, and guest speakers. The purpose of the course is to help develop a solid conceptual understanding of foundational principles of optics and photonics as well as the problem-solving and critical thinking skills needed to be successful in the field. Students will also gain an awareness of the many and varied career opportunities and pathways available in this fascinating and rapidly growing field.

LEO-235 WAVE OPTICS 2 CREDITS (+1 LAB CREDIT)

Three major topics are studied in this course: wave optics, properties of light and matter and the optic of transformations. The majority of the course is dedicated to wave optics and the study of diffraction and interference. In dealing with the properties of light and matter, polarization and optical boundaries are discussed. The optics of transformations deals with Fourier transform spectroscopy, transfer functions, optical data processing, and holography. Laboratory exercises will closely parallel classroom discussions and should help bridge the gap between theory and practical use of the concepts expressed. Senior standing course; Honors component available. PREREQUISITE: MAT-124 and LEO-110; COREQUISITE: Take LEO-235L.

LEO-250 SENIOR PROJECT RESEARCH 1 CREDIT (+1 LAB CREDIT)

In this course students will investigate key aspects of project development and management including project research, development of design specs, project scheduling using Gantt charts, preliminary design/simulation, component selection, construction considerations, prototype development, design verification & testing, and design improvement and performance monitoring. Students will use this knowledge to complete the first several stages of their capstone senior project design. Students will use the concepts presented in the beginning of the course to select, spec and order the components needed for their senior project in LEO-265. Only students expecting to graduate in the following spring should take this course. PREREQUISITE: Senior standing, permission of Instructor; COREQUISITE: Take LEO-250L.

LEO-260 INDUSTRIAL LASER APPLICATIONS 2 CREDITS

This course deals with the applications of lasers in industry. Among the many different uses of lasers to be studied are laser welding and surface treatment, material removal, laser marking and etching, non-destructive testing, distance measurement lasers in medicine and surgery, lasers in construction, spectroscopy, communications and others. Lab included. PREREQUISITE: Senior standing or permission of instructor; COREQUISITE: LEO-260L.

PHILOSOPHY

PHL-101 INTRODUCTION TO PHILOSOPHY 3 CREDITS

Philosophy is part of the study of the self; the search for reasons for our values and beliefs; and for good reasons for our reasons. The course includes a critical examination of the traditional questions in ethics, politics, religion and art. PREREQUISITE: DRG-092 or DWT-099 (minimum grade C-) or placement at higher level on the reading or writing placement tests.

PHL-110 WORLD RELIGIONS 3 CREDITS

An introduction to the major world religions emphasizing cultural origins, spirituality, beliefs, traditions, texts, historical development, social structure and role in world politics. Religions considered include: Hinduism, Buddhism, Judaism, Christianity, Islam, Baha'i, Confucianism, Zoroastrianism, Taoism, Native American, African, and other world traditions as determined by interests of participants. Participants should be prepared to distinguish between the critical examination of religion and the personal study of one's religion as an adherent. PREREQUISITE: DRG-092 or DWT-099 (minimum grade C-) or placement at higher level on the reading or writing placement tests.

PHL-120 CRITICAL THINKING 3 CREDITS

The primary objectives of this course are to impart a functional ability to reason well and to improve the student's analytical skills and instincts. In addition to familiarizing students with elementary methods of building strong arguments, the course is further designed to aid them in understanding the essential principles involved in the practice of reasoned decision making. The writing skills developed in this class will serve students across all academic disciplines and in the workplace.

PHL-220 ETHICS IN CRIMINAL JUSTICE 3 CREDITS

Inherent within the criminal justice system is the power to make discretionary decisions that impact the offenders, victims, and society. This course exposes students to ethical issues associated with the police, prosecution, courts, and correctional systems. Thus, this course is designed to begin preparing students in identifying and critically examining ethical issues in the criminal justice system by applying ethical decision models. This course also provides students with the unique opportunity to analyze how they would resolve these issues according to their own values and beliefs while staying within the boundaries of the law and professional codes of ethics. PREREQUISITE: CRJ-101, CRJ-110.

PHL-255 ETHICS IN SOCIAL WORK & HUMAN SERVICES 3 CREDITS

This course exposes students to major and influential ethical schools of thought, as well as to ethical standards, issues, and dilemmas associated with social work and other human services. The course provides students with a collegial space in which to identify, critically analyze, explore, and debate relevant ethical issues related to professional work in the social services and other human service fields. The course will explore, critically analyze, and apply professional ethical standards, such as, but not limited to: the National Association of Social Workers Code of Ethics and the National Organization of Human services Ethical Code of Conduct, and other relevant codes of ethics. Additionally, the course will explore, critically analyze, debate, and apply relevant state laws and ethical standards. Students will be given the opportunity to apply such professional ethical standards to a variety of hypothetical and "real world" ethical problems and dilemmas. PREREQUISITE: ENG-101.

PHYSICS

PHY-105 PHYSICAL SCIENCE 1 3 CREDITS (+1 LAB CREDIT)

This is a course for non-science majors, particularly future K-12 teachers, drawing from a broad base of topics in physical science about the study of matter and energy. Science and technology are the driving forces of change in our world today. This course introduces basic concepts of physics, covering forces, optics, temperature, heat, simple harmonic motion, the electromagnetic spectrum, and electricity. A qualitative / descriptive approach to natural phenomena is discussed utilizing basic math skills. The intent is to provide a student with a broad basis touching on physics, chemistry, and some life science. Computer simulations and internet research are used to probe the laws of physics. This course is primarily intended to fulfill a laboratory science requirement for General Studies students, and, although not recommended, may in some cases be used as a transferable science course by Liberal Arts transfer students. Scientific Calculator required. PREREQUISITE: MAT-089, MAT-083 or MAT-087 (minimum grade C-) and placement in DRG-092 and DWT-099 or above; COREQUISITE: Take PHY-105L.

PHY-107 THE SCIENCE OF CLIMATE CHANGE 3 CREDITS

This introductory three-credit course presents Earth's climate system and explores how that climate system can change due to both natural and human influences. Course topics include the greenhouse effect, El Niño, atmospheric and oceanic circulation dynamics, the carbon cycle, the scientific evidence behind climate change and how human influences on the environment lead to climate change. Also included will be predicted impacts of climate change on the United States and discussion of possible options at the global level. Written and oral presentation of student work will be an integral part of the course. PREREQUISITE: MAT-087 (minimum grade C-) or placement at higher level and DRG-092 or DWT-099 or placement at higher level.

PHY-116 PHYSICS OF GREEN ENERGY 3 CREDITS (+1 LAB CREDIT)

This is a physical science laboratory course for non-science majors in the study of alternative and renewable energy sources. Conservation of energy and energy efficiency are contemporary global topics. The student will gain broad practical knowledge of alternative energy production currently in use and alternative and renewable energy sources for use in tomorrow's zero-emissions world. Students will be able to make better professional and personal decisions regarding the issues of energy and conservation. Areas of study will emphasize an overview about the technology of alternative energy devices such as: solar, wind, fuel cells, ocean wave power, and other forms of renewable "green" and sustainable electrical energy production. Also addressed are traditional conventional electrical energy sources such as: batteries, traditional electric generators, steam and gas turbines and nuclear power stations. PREREQUISITE: MAT-089,MAT-083 or MAT-087 (C- or better) or placement at college level on math placement test and placement in DRG-092 and DWT-099; COREQUISITE: Take PHY-116L.

PHY-213 RADIOLOGIC PHYSICS 1 3 CREDITS (+1 LAB CREDIT)

Topics covered are: basic mechanics, mass, force, work, momentum, electrostatics leading to fundamentals of electronics to produce photons. Laboratory exercises are related the specific topics and require graphing and writing. Special topics covered are: the nature of the photon, ionizing photons, the photoelectric effect, the Compton Effect, pair production and the secondary radiation produced by the primary effects. Attenuation characteristics and spectra are discussed. Use of software program using spread sheet required. Scientific Calculator required. Honors component with permission of instructor. This course is specifically designed to meet the physics requirement for students in the Diagnostic Medical Imaging program. PREREQUISITE: MAT-124 and placement in ENG-101; COREQUISITE: Take PHY-213L.

PHY-221 PHYSICS 1 3 CREDITS (+1 LAB CREDIT)

A non-calculus, introductory physics course, also called "mechanics". Topics include kinematics, Newton's Laws of Motion, work and

energy, rotational motion, static equilibrium, conservation of linear and angular momentum. Newton's Law of Universal Gravitation, oscillatory and wave motion will be discussed. Includes a three-hour laboratory. Honors component with permission of instructor. The calculus based physics course equivalent in topic coverage is PHY-231. PREREQUISITE: MAT-124 with a minimum grade of C- and placement at ENG-101; COREQUISITE: Take PHY-221L.

PHY-231 CLASSICAL PHYSICS 1 3 CREDITS (+1 LAB CREDIT)

A calculus-based, rigorous physics course for engineering and science transfer majors, also called "Newtonian Mechanics". It is the first of a required two-semester sequence [PHY-232] for engineering transfer students. Topics include kinematics, Newton's laws of motion and conservation laws, applied to single particles, sets of particles and rigid bodies. Newton's law of universal gravitation and harmonic motion will be discussed. Includes a three-hour laboratory and a one-hour recitation each week. Honors component with permission of instructor. PREREQUISITE: MAT-131 (minimum grade of C-) and DWT-099 (or placement at college-level English); COREQUISITE: Take PHY-231L .

PHY-232 CLASSICAL PHYSICS 2 3 CREDITS (+1 LAB CREDIT)

A calculus-based, rigorous physics course for engineering and science transfer majors, also called "Electricity and Magnetism". It is the second of a required two-semester sequence [PHYS-132] for engineering transfer students. Topics include electrostatics, electric and magnetic fields, their interaction with charged particles, and laws of induction. Voltage, current and circuit analysis will be discussed. Includes a three-hour laboratory and a one-hour recitation each week. Honors component with permission of instructor. PREREQUISITE: PHY-231 and MAT-132 (minimum grade of C-) and DWT-099 (or placement at college-level English); COREQUISITE: Take PHY-232L.

POLITICAL SCIENCE

PSC-101 AMERICAN GOVERNMENT & POLITICS I 3 CREDITS

An analysis of the way in which politics and political institutions work in American society. The major problems of American democracy are explored with their political, social and economic implications. Also explored are constitutional rights and freedoms, the federal power structure and changing governmental institutions.

PSC-102 STATE AND MUNICIPAL GOVERNMENT 3 CREDITS

This course introduces students to the workings and influence of state and local governments. Students will examine the role of states in the U.S. political system, including their role as "laboratories of democracy." This course will examine various models for how state government operates with particular attention paid to the Commonwealth of Massachusetts. Students will learn the dynamic processes that occur at the local level and how that affects the day-to-day operations of the municipality with a focus on budgeting and zoning regulations.

PSYCHOLOGY

PSY-101 GENERAL PSYCHOLOGY 3 CREDITS

This introductory course identifies those scientific methods used to study human behavior. Discussion centers around the contribution of heredity, environment, learning, perception, motivation and emotion in shaping our individual personalities. Honors component available. PREREQUISITE: DRG-091 (minimum grade C-) or placement at higher level on the reading placement test.

PSY-101H HONORS GENERAL PSYCHOLOGY 3 CREDITS

This introductory course identifies those scientific methods used to study human behavior. Discussion centers around the contribution of heredity, environment, learning, perception, motivation, and emotion in shaping our individual personalities. In addition, students will be required to submit work that is representative of honors-level course work; to that end, more time will be dedicated to developing argumentation and research skills. Among the assignments types that may be required are documented research papers and/or comparable research projects. Students who complete the course will also have the opportunity to present their work at the annual Honors Fair.

PSY-200 CHILD PSYCHOLOGY 3 CREDITS

This advanced course examines the major influences on a child's physical, cognitive and social development from conception through early childhood. Information is presented in chronological order to give an integrated view of the child at each major phase of development. An examination of the basic theories and contemporary research suggest some answers for more effective parenting. PREREQUISITE: PSY-101 (minimum grade C-).

PSY-210 LIFESPAN HUMAN GROWTH & DEVELOPMENT 3 CREDITS

This course will emphasize the cognitive, biological, psychosocial, sexual, cultural and moral development of the individual from conception through old age. The theories of Freud, Erikson, Piaget, Kohlberg, Kubler-Ross and other prominent psychologists will be applied to specific problems in the developmental process. PREREQUISITE: PSY-101 (minimum grade C-).

PSY-215 THEORIES OF PERSONALITY 3 CREDITS

This course is an introduction to psychological theory and research on the concept of personality It examines the prominent paradigms in personality theory: psychodynamic, behavioral, cognitive, humanistic and trait theory. Particular emphasis is placed on the determinants and development of personality and current thought regarding the interplay of biological and environmental influences. PREREQUISITE: PSY-101 (minimum grade C-).

PSY-220 ADOLESCENT PSYCHOLOGY 3 CREDITS

This advanced cause examines the major influences on a person's physical, cognitive and social development from childhood through adolescence. An examination of the basic theories and contemporary research is presented for each major phase in order to give an integrated view of development in humans during this time of their lives. PREREQUISITE: PSY-101 (minimum grade C-).

Credit Course Descriptions

PSY-222 GERONTOLOGY 3 CREDITS

This advanced course examines the major influences on the maturing adult's physical, cognitive, and social development up until the termination of life. An examination of the basic theories and contemporary research for this emerging field of study will be presented and examined. Topics covered will include the neuroscience and physical changes of aging as well as the new changing lifestyles and social relationships of this enlarging population in their "Golden Years." Also examined will be the components of healthful living, the aging process, and death and bereavement. PREREQUISITE: PSY-101.

PSY-225 COGNITIVE PSYCHOLOGY: LEARNING & MEMORY 3 CREDITS

How do we remember our experiences, learn new information, make decisions, solve problems, and perceive the world around us? What are attention, emotion, and creativity? And what happens when these cognitive processes break down? Cognitive Psychology explores these processes of thought and mind and how we research them. Students will learn theories, methods, and concepts of cognitive psychology and apply them to everyday life including their own learning. PREREQUISITE: PSY-101 (minimum grade C-).

PSY-230 PRINCIPLES OF NORMAL/ ABNORMAL BEHAVIOR 3 CREDITS

A general introduction into the origin, development degrees of mental disorganization and the methods of coping with psychological dysfunction. Inquiry will also be made into the theoretical and applied approaches of several of the major schools of thought with regards to helping services. PREREQUISITE: PSY-101 (minimum grade C-).

PSY-240 INTRO TO FORENSIC PSYCHOLOGY 3 CREDITS

This course will provide students with basic information about the various forensic activities utilized within the legal system and their relationship to psychology. Some of the forensic psychology tools may include: competency evaluations, assessment of violent behavior and dangerousness, court testimony, police psychology, and consulting with criminal, juvenile and civil courts. The psychology of criminal behaviors will be presented. Students will obtain introductory information about the numerous roles of professionals in this field and will develop basic knowledge and skills which will prepare them to continue with specialized training in this area. PREREQUISITE: DRG-091 (minimum grade C-) or placement at higher level on the reading placement test.

SIGN LANGUAGE

ASL-101 AMERICAN SIGN LANGUAGE 1 3 CREDITS

This is an introductory course for students with little or no previous background in American Sign Language. Students are introduced to the American Sign Language alphabet and numbers. Basic vocabulary building, visual-gestural communication, and information related to deaf culture are also introduced. Students and teacher use ASL in the class to communicate in class.

ASL-102 AMERICAN SIGN LANGUAGE 2 3 CREDITS

This course is a continuation of ASL-101, designed to further develop students' proficiency in frequently used signs. Students will be introduced to more complex lexical and grammatical structures, non-manual signals and advanced dialogues. The course offers students the opportunity for individual hands on experience in language learning. Students and teacher use ASL in the class to communicate. PREREQUISITE: ASL-101.

SOCIOLOGY

SOC-101 INTRODUCTION TO SOCIOLOGY 3 CREDITS

An introductory course designed to acquaint the student with a working knowledge of the concepts used by sociologists and with the well-established generalizations in the field. Topics to be discussed include socialization, culture, population, group processes, social stratification ethnic/racial stratification, gender stratification and social change. PREREQUISITE: DRG-091 (minimum grade C-) or placement at higher level on the reading placement test.

SOC-101H HONORS INTRODUCTION TO SOCIOLOGY 3 CREDITS

An introductory, honors level course designed to acquaint the student with a working knowledge of the concepts used by sociologists and with the well-established generalizations in the field. Topics to be discussed include socialization, culture, population, group processes, social stratification ethnic/racial stratification, gender stratification and social change. COREQUISITE: ENG-101.

SOC-102 INTRO TO SOCIAL WORK 3 CREDITS

This course will familiarize students with the various roles, functions, and tasks which social workers perform in a variety of settings and acquaint them with the primary skills and practices of generalist social work. Students will be introduced to social work practice as a multi-level and multi-method approach to influencing change in program situations. Students will also be introduced to the core values and Code of Ethics of social work and be exposed to issues of diversity, oppression, and social justice.

SOC-200 SOCIAL PROBLEMS 3 CREDITS

This course applies the principles and concepts of sociology to an understanding of contemporary social problems such as poverty, minority status, crime, alcohol, drug addiction, etc. Emphasis will be on the connection between personal experience and the larger social, political, and economic institutions of society. PREREQUISITE: ENG-101 (minimum grade C-).

SOC-210 RACE AND SOCIETY 3 CREDITS

An introduction to the sociological study of race and race relations. Topics studied include the social construction and fluidity of race and ethnicity, issues of racial inequality and privilege, historical and contemporary race relations, and the embeddedness of racism, prejudice and discrimination in all levels of society. PREREQUISITE: ENG-101 (minimum grade C-).

SOC-220 URBAN SOCIOLOGY 3 CREDITS

This course serves as an introduction to the sociological study of cities as both social and spatial milieu. An emphasis is placed on social problems related to urbanization and the contemporary city. The study of the American city and regional urban areas is prioritized, but global urban issues will also be considered. The course covers topics that include, but are not limited to: urban social theory; urbanization, suburbanization, and sprawl; residential segregation; inequality; gentrification; cities and culture; migration; and the global city. PREREQUISITE: DRG-091 DWT-099 (minimum grade C-) or placement at higher level.

SPANISH

SPN-101 ELEMENTARY SPANISH 1 3 CREDITS

This course introduces the student to the basic grammatical structure and pronunciation of the Spanish language. Communicative content includes: greetings, asking about courses and professions, days of the week, months of the year, and dates, numbers, telling time, discussing family, nationalities and languages, places and activities. Grammatical content includes: Nouns and subject pronouns, "hay", articles, use of common regular verbs in the present tense, using descriptive and possessive adjectives, conjugating correctly and understanding differences in meaning of ser and estar and using each appropriately, conjugating in the simple present tense the following irregular verbs: tener, venir, ir, irregular "yo" verbs and some stem-changing verbs. Students will also be introduced to the culture, customs and diversity of Spanish-speaking countries. PREREQUISITE: Placement at ENG-101 or its equivalent or permission of the instructor.

SPN-102 ELEMENTARY SPANISH 2 3 CREDITS

This is a continuation of Elementary Spanish 1, with emphasis on the four basic skills necessary for the mastery of a foreign language: listening, speaking, reading and writing. More sophisticated grammatical and linguistic concepts are introduced and discussed, using the Spanish language as a tool for communication. Students gain the know- ledge of the contemporary thought of Hispanics in the United States and in the Hispanic world. Intense oral drills and practical vocabulary. PREREQUISITE: SPN-101 (grade of C or higher), one year of high school Spanish, placement at SPN-102, or permission of instructor.

SPN-121 CONVERSATIONAL SPANISH FOR MEDICAL PERSONNEL 3 CREDITS

This course will assist police, fire, and medical personnel in speaking and understanding simple Spanish phrases. Students will practice basic dialogs and useful medical vocabulary to prepare for real world interactions. PREREQUISITE: SPN-101 (minimum grade C+) or high school Spanish.

SPN-125 SPANISH FOR PUBLIC SERVICE 3 CREDITS

Spanish for Public Service will gear students to the basics of conversational Spanish. This course is well suited for those entering careers in policing, government, social work, or teaching. Basic conjugation and conversational vocabulary that is applicable to these professions will be covered. The emphasis on this course will be speaking and listening skills. PREREQUISITE: SPN-101 (minimum grade C+) or High School Spanish.

SPN-210 PROFESSIONAL WRITING IN SPANISH 3 CREDITS

This course is offered for individuals with basic competency in Spanish, looking to improve their professional writing to better communicate with the Hispanic Community. This is an ideal course for both degree seeking students and professionals looking to advance their career. This course will begin with a review of basic grammatical structures as needed for the professional writing, as well as vocabulary common to different professions such as business, health, and engineering as requested by interested students. The course will progress into styles including formal and informal forms of communication such as letters, memos, e-mails, reports, job applications, and resumes. Assessment will be based on written pieces in Spanish including these styles. PREREQUISITE: SPN-102 (minimum grade C+) or permission of instructor.

SPEECH

ENG-105 FUNDAMENTALS OF ORAL COMMUNICATION 3 CREDITS

This course offers students opportunities to practice the fundamental principles of oral communication. These include but are not limited to preparing, organizing, and delivering various kinds of speeches; evaluating verbal and nonverbal patterns and habits; using vocabulary and tone appropriate to the audience and topic; and listening and responding to others. In addition to drawing from their own experiences, students will research and document information from diverse sources. PREREQUISITE: DWT-099 (minimum grade C-) or placement at higher level writing.

THEATER

THR-101 FUNDAMENTALS OF ACTING 3 CREDITS

This course introduces students to the art of acting with emphasis on characterization, voice, and movement. In addition, varieties of acting techniques, script analysis, improvisation, and theater exercises will be used to prepare monologues, duet scenes and one-act plays. Additional emphasis is on acting as a method of improving self-presentation and self-development.

THR-211 COLLEGE THEATRE WORKSHOP 1 3 CREDITS

This is a play production course. Each semester a play is chosen to be prepared and performed at the end of the semester. Students will be involved in various theater activities: acting, set construction, set decoration, props, lights, and costumes. When registering for this course, the student will automatically be signed up for a 3-credit course, however the student may contact the professor, by the end of the add/drop period, if they wish to take the course for 1, 2, or 4 credits and participate on a limited or standard course time basis. This course may be taken by students, faculty, and staff as a co-curricular activity with or without credit. Rehearsal and performance times taking place outside regular class times will be announced the first day of class.

General Information

ABSENCE DUE TO RELIGIOUS BELIEFS

If a student's absence is due to religious beliefs, then the following legislation will apply: Any student in an educational or vocational training institution who is unable, because of religious beliefs, to attend classes, or to participate in any examination, study, or work requirement on a particular day shall be excused from any such examination or study or work requirement that he may have missed because of such absence on any particular day, provided however, that such a makeup examination or work shall not create an unreasonable burden upon such school. No fees of any kind shall be charged by the institution for making available to the said student such opportunity. No adverse or prejudicial effects shall result to any student because of his availing himself of the provisions of this section. Section 28, Chapter 151C, Massachusetts General Laws.

ABSENCES FOR PREGNANCY OR CHILDBIRTH

In accordance with Title IX of the Educational Amendments of 1972, absences due to pregnancy or related conditions, including recovery from childbirth, shall be excused for as long as the student's doctor deems the absences to be medically necessary. When the student returns to the College she shall be reinstated to the status she held when the leave began, which includes the opportunity to make up any missed work. The College may offer the student alternatives to making up missed work, such as retaking a semester, taking part in online instruction, or allowing the student additional time in a program to continue at the same pace and finish at a later date. For more information, please contact the Title IX Coordinator at (413) 755-4426.

ACCREDITATION

Springfield Technical Community College is accredited by the New England Commission of Higher Education (NECHE). (Prior to August 2018, the College was accredited by the New England Association of Schools and Colleges, Commission on Institutions of Higher Education.) Accreditation of an institution of higher education by the Commission indicates that it meets or exceeds criteria for the assessment of institutional quality periodically applied through a peer review process. An accredited college or university is one which has available the necessary resources to achieve its stated purposes through appropriate educational programs, is substantially doing so, and gives reasonable evidence that it will continue to do so in the foreseeable future. Institutional integrity is also addressed through accreditation.

Accreditation by the Commission is not partial but applies to the institution as a whole. As such, it is not a guarantee of every course or program offered, or the competence of individual graduates. Rather, it provides reasonable assurance about the quality of opportunities available to students who attend the institution.

Inquiries regarding the accreditation status by the Commission should be directed to the administrative staff of the institution. Individuals may also contact: New England Commission of Higher Education, 3 Burlington Woods Drive, Suite 100, Burlington, MA 01803-4514, (781) 425-7785, info@neche.org

AMERICANS WITH DISABILITIES ACT

Springfield Technical Community College advises applicants, participants, and the public that it does not discriminate on the basis of disability in admission or access to, or treatment or employment in its programs, services and activities. Inquiries, requests and complaints should be directed to the ADA Coordinator, STCC, One Armory Square, Building 19, Room 141, Springfield, MA 01105. The telephone number is (413) 755-4785.

CONFIDENTIALITY OF STUDENT RECORDS

The Family Educational Rights and Privacy Acts 1974 (FERPA) as amended, provides for students to have access to their educational records, to challenge anything in the records which they consider inaccurate or misleading, and to limit the release of such information.

The complete text of this policy is available online at stcc.edu/resources/academic-support/student-records

Student Right to Know Disclosure

Notice is hereby given that, in accordance with the Student Right to Know Act (Title of Public Law 101-542 and 103-382), all student right-to-know information and equity in athletics information is available on the Student Consumer Information page of the College website.

STATEMENT OF NONDISCRIMINATION

Springfield Technical Community College is an Affirmative Action/ Equal Opportunity Employer and does not discriminate on the basis of race, color, national origin, gender, sexual orientation, age, religion, or disability in its educational programs or in admission to, access to, treatment in, or employment in, its programs or activities as required by Title VI, Civil Rights Act of 1964; Title IX, Educational Amendments of 1972; and Section 504 of the Rehabilitation Act of 1973; and regulations promulgated thereunder 34 C.F.R. Part 100 (Title VI), 34 C.F.R. Part 104 (Section 504), 34 C.F.R. Part 106 (Title IX), and M.G.L. c 516. Title IX protects any person from sex-based discrimination, harassment, and violence regardless of their gender expression or gender identity. This includes female, male, transgender, and gender non-conforming students, faculty, and staff.

The following individuals handle inquiries regarding Title IX and STCC's non-discrimination policies:

Senior Director of Human Resources/EBOC/
Affirmative Action Officer
Director of Human Resources/Title IX Coordinator
Building 16, Room 243
One Armory Square, Springfield, MA
(413) 755-4426

Inquiries concerning application of the above should be directed to the Affirmative Action Officer and Title IX Coordinator, or the Section 504 Coordinator.

General Information

INTERNET POLICY

All STCC students are expected to adhere to the campus policy. STCC supplies access to the internet and its components to students and employees of the college. Inappropriate use, including any violation of conditions and rules established by STCC, may result in cancellation of this privilege, suspension from the institution, as well as possible civil and/or criminal sanctions. The full policy is available on request in the Admissions Office.

DRUG AND ALCOHOL POLICY

Springfield Technical Community College is a drug- and alcohol-free campus. In accordance with Title XII of the Higher Education Act of 1965 (as amended by the Higher Education Opportunity Act of 2008), the STCC Drug and Alcohol Policy is available in the Student Policies section of the College website.

STCC POLICE

Located in Building 9, the STCC Police Department is a fully sworn law enforcement agency, committed to providing a safe and secure educational and working environment for students, faculty, staff, and visitors. Through progressive training and ethical conduct, we are committed to excellence and diversity. Our organizational values are reflected in our mission statement and are carried out by all members of our department. All crimes that occur on campus should be reported to STCC Police. The emergency number on campus is (413) 755-3911 or 3911 from any campus phone. Learn more at stcc.edu/campus-life/police

CAMPUS SAFETY DISCLOSURE: Notice is hereby given that, in accordance with the Student Right to Know Act (Title II of Public Law 101-542), and the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act, the Annual Security Report from STCC is available from the College's Department of Public Safety. To view the crime statistics for the three previous years as well as helpful information on crime awareness and prevention, please see the Annual Security Report (ASR) at: stcc.edu/media/departments/policex2fparking/CleryReport.pdf. An ASR may also be requested by calling (413) 755-4220.

SEX OFFENDER NOTIFICATION

In accordance with federal law, STCC is required to advise the campus community where information concerning registered sex offenders may be obtained. Information concerning Level 2 and Level 3 offenders is available to the general public by contacting the Commonwealth of Massachusetts Sex Offender Registry Board, located at PO Box 4547, Salem, MA 01970-4547, (978) 740-6400, or the Springfield Police Department, located on Pearl Street in Springfield. Level 3 offender information is also available online at mass.gov/sorb If you have any questions regarding access to sex offender information, please feel free to contact the STCC Chief of Police, located in Building 9, (413) 755-4220 or (413) 755-4444.

CRIMINAL OFFENDER RECORD INFORMATION (CORI) POLICY

The Executive Office of Health/Human Services (EOHHS) requires a Criminal Offender Record Information (CORI) check on all persons hired or volunteering to provide services at all state hospitals, mental health facilities, day care centers, schools, or other sites serving "populations at risk." (Mass General Laws, Chap. 6, Section 167-178B.) Each student accepted into any Springfield Technical Community College program or offering in the School of Health and Patient Simulation or other designated programs must undergo a CORI check once a year. This policy also applies to students participating in laboratory experiences on or off campus, including field trips and site visits. Any student who does not pass the CORI check or who refuses to consent to a CORI check, will be precluded from participating in the corresponding clinical fieldwork, practicum course, and/or laboratory experience. Students who do not complete the required clinical, laboratory, or practicum courses, on or off campus, will be unable to fulfill requirements for graduation, and may be withdrawn from the program. Alternative clinical/practicum experiences, on or off campus, are not an option.

Additional Testing

In addition to CORI checks, students may be subject to drug or other tests as required by clinical/practicum affiliates. Any student who does not pass drug or other tests, or who refuses to consent to drug or other tests as required by the clinical practicum facility or experience, will be precluded from participation in the corresponding clinical affiliation, laboratory experience, and/or practicum course. Alternative clinical/practicum experiences, on or off campus, are not an option. Students who do not complete required clinical, laboratory experience and/or practicum course, on or off campus, will be unable to fulfill program/college requirements and may be withdrawn from the program. Certification of drug or other test results is the responsibility of the student.

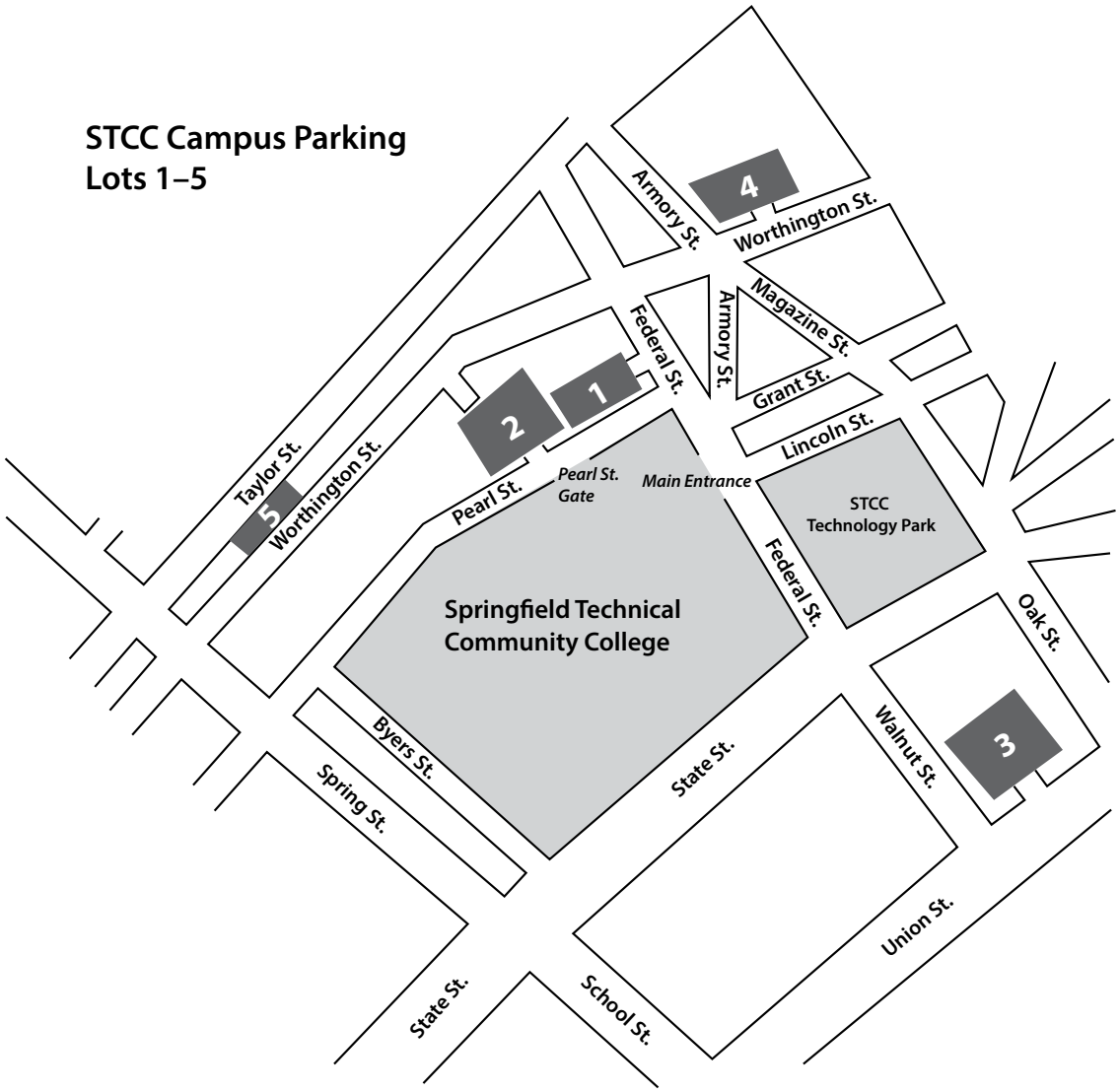
Verification of CORI Report

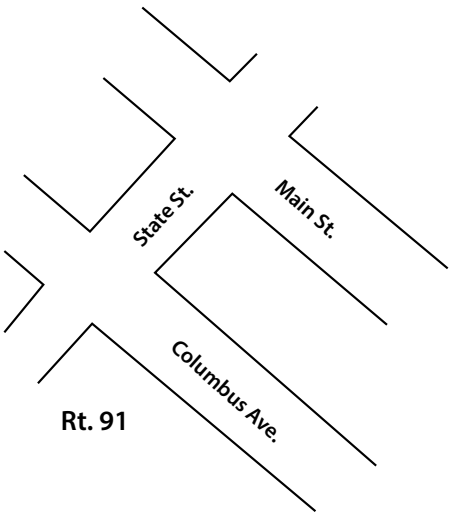
If a student contends that his/her CORI report contains erroneous information, or has any questions, the student should immediately contact: Criminal History Systems Board, 200 Arlington Street, Suite 2200, Chelsea, MA 02150, 617-660-4600.

Refusal to Allow Required Record Check/Other Testing

Any student who refuses to allow required record checks or other testing will be removed from the involved clinical affiliation, laboratory experience, and/or practicum course, and may be withdrawn from the program. Under most circumstances, the CORI check cannot be processed without a written permission. The CORI Request Form must be returned within ten (10) days of receipt, and it must be on record at Springfield Technical Community College before the student can register for classes.

Directions to Springfield Technical Community College





From Route 91 North

- Take Exit 6, Springfield Center
- Merge onto East Columbus Ave.
- Turn right onto State Street
- Turn left onto Federal Street
- Turn left into Springfield Technical Community College's main gate

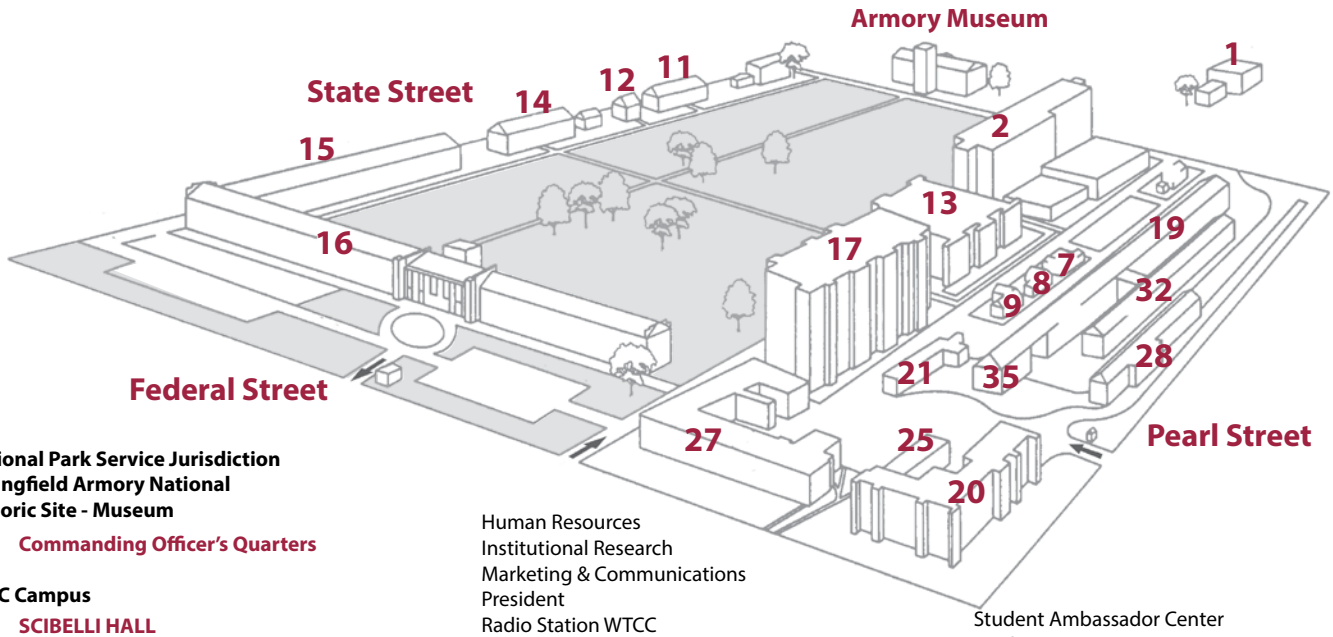
From Route 91 South

- Take Exit 7, Hall of Fame Ave/Downtown Springfield
- Merge onto West Columbus Ave.
- Turn left onto State Street
- Turn left onto Federal Street
- Turn left into Springfield Technical Community College's main gate

From the Massachusetts Turnpike

- Take Exit 6, Springfield
- Turn left onto Route 291
- Take Rt. 91 South toward Hartford
- Follow directions from Rt. 91 South

Campus Map



National Park Service Jurisdiction
Springfield Armory National Historic Site - Museum

1 Commanding Officer's Quarters

STCC Campus

2 SCIBELLI HALL
Authorized Testing Center
Athletics
Biological Sciences
Biotechnology
Business Administration
Computer Information Technology
Digital Media Technology
Fitness Center
Food Service
Gymnasium
Health Information Technology
Office Information Technology
Student Business Incubator
Student Computer Labs
Theater
Top of Our City Conference Center

9 Campus Police

11 WMass Municipal Police Training Academy

13 DELISO HALL
English
English as a Second Language
General Studies
Music
Teacher Education
World Languages
Writing Center

14 Armory Square Childcare
Graphic Communications & Photography

15 GARVEY HALL SOUTH

16 GARVEY HALL
Academic Affairs
Admin. Comp. Center
Administrative Services
Alumni Association
Center for Online & Digital Learning
Facilities Department (& Business Services)
Foundation
Gateway to College Program
Grants and Development
Human Resources
Institutional Research
Marketing & Communications
President
Radio Station WTCC

17 PUTNAM HALL
Architecture & Building Technology
Center for Access Services
Chemistry
Civil Engineering Technology
Computer Science Transfer
Computer Systems Engineering Technology
Criminal Justice
Economics
Electronic Systems Engineering Technology
Engineering & Science Transfer
History
Landscape Design/Mgmt. Technology
Mathematics
Mechanical Engineering Technology
Optics & Photonics
Photography Darkroom
Physics
Professional Development Center
Psychology
Sociology/Anthropology
STEM Starter Academy

19 IRA H. RUBENZAHL STUDENT LEARNING COMMONS
Academic Advising & Transfer Center
Adaptive Computing Lab
Admissions
Bookstore
Campus Events
Career Development Center
Center for Student Veterans and Service Members
Disability Services
English Language Learners
Health & Wellness Center
IT Help Desk (Satellite office)
Library
Multicultural Affairs
Parking & Transportation
Perkins
Police (Satellite office)
RAM Card Office
Registrar
Student Activities & Development
Student Ambassador Center
Student Government Association
Student Financial Services
Student Success Center
Testing and Assessment Center
TRIO Student Support Services
Veterans' Affairs
Vice President of Student Affairs

20 HEALTH SCIENCES BUILDING
Cosmetology
Dental Assisting Clinic
Dental Hygiene Clinic
Diagnostic Medical Sonography
Electrical Engineering Technology
Food Service
Health Science
Medical Assistant
Medical Laboratory Technician
Nursing
Occupational Therapy Assistant
Physical Therapist Assistant
Radiologic Technology
Rehab Clinic
Respiratory Care
SIMS Medical Center
Surgical Technology

21 Landscape Dept./Greenhouse

25 Automotive Technology

27 Adult Education Center
Mailroom/Receiving
Workforce Development Center

28 FINE ARTS BUILDING
Art Department
Amy H. Carberry Fine Arts Gallery

32 Energy Systems Technology

35 Civil Engineering/Landscape Labs

Springfield Technology Park (One Federal Street)
Mechanical Engineering Technology
Scibelli Enterprise Center

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- Massachusetts College of Liberal Arts
- Massachusetts College of Art and Design
- Massachusetts Maritime Academy
- Wentworth Institute of Technology
- Northeastern University
- Cambridge College
- Southern New Hampshire University
- Western New England University
- American International College
- Bay Path University
- Springfield College
- Charter Oak College
- Elms College

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Springfield Technical Community College
One Armory Square
Springfield, MA 01102-9000

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Fall 2019 at STCC

Fall Registration NOW OPEN

For more information, visit us online at **stcc.edu** or call the Registrar's Office at **(413) 755-4321**.

Fall Semester
September 3–December 13

Fall Flex Term I
September 3–October 22

Fall Flex Term II
October 23–December 13

Tour the STCC Campus

We offer tours every Wednesday at 10:00 am and 3:00 pm. Tours begin at the Admissions Office in Building 19, 1 Armory Square, Springfield, MA.

Learn more at stcc.edu/apply/visit-us

Instant Accept Day is Every Day!

No appointment necessary. Just bring your official high school transcript, GED or HiSET scores/transcript to the STCC Admissions Office.

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Our College Now program for eligible high school juniors and seniors opens STCC's in-person classes to you! Some classes can double as high school graduation requirements. **Students can take one class per semester for free!** Visit your guidance counselor for more information. Homeschool students' parents should contact the STCC Admissions Office.

Attend an info session on December 1st for the next available College Now enrollment (for students new to the program) for the Spring 2020 semester.

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