

CATALOG 2013-2014

# *Real Education* FOR *Life*



 **SOUTH HILLS**  
SCHOOL OF BUSINESS & TECHNOLOGY  
STATE COLLEGE • ALTOONA • LEWISTOWN

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This catalog contains descriptions of the current programs, course offerings, educational plans, requirements, administrative policies, tuition, and fees of South Hills School of Business & Technology.

In order to meet the changing needs of the business community and the student body, South Hills School of Business & Technology reserves the right to make changes in the tuition, courses, faculty or schedules at any time.

South Hills School is licensed by the Pennsylvania Department of Education, State Board of Private Licensed Schools. The school is accredited by The Accrediting Council for Independent Colleges and Schools to award diplomas, associate in specialized business, and associate in specialized technology degrees. South Hills School of Business & Technology also reserves the right to require a student to withdraw, for cause, at any time.

In accordance with Title IX regulations, the Commonwealth of Pennsylvania Human Rights Law, and Section 504 of the Rehabilitation Act, South Hills School of Business & Technology does not discriminate or limit access to its programs, activities, or employment on the basis of race, color, sex, age, religion, national origin, marital status, sexual orientation, ancestry, political belief, status as a veteran, or economic background.

CATALOG 2013-2014

# *Real Education* FOR *Life*

**SOUTH HILLS**  
SCHOOL OF BUSINESS & TECHNOLOGY

*Changing Lives Since 1970*



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STATE COLLEGE, PA 16801  
Phone 814-234-7755

ALTOONA  
508 58TH STREET  
ALTOONA, PA 16602  
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124 EAST MARKET STREET  
LEWISTOWN, PA 17044  
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# GENERAL INFORMATION

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## Location . . .

### State College (Main Campus)

The main campus of South Hills School of Business & Technology is located at 480 Waupelani Drive, State College, on a six-and-a-half acre lot overlooking the mountains on one side and State College on the other. The school is easily reachable from Lewistown, Bellefonte, Philipsburg, and Huntingdon areas.

South Hills School shares recreational and athletic facilities with the YMCA, which is on the adjoining lot. The combination creates a campus environment where students can remain physically fit while they are preparing for new careers.

South Hills School is close to housing, shopping, transportation, and activities. State College offers many cultural and sporting events throughout the area. Some of those activities that have offered the most in the past are: the Artists Series, in which touring professional acting, dancing and musical shows are produced at Penn State; the Central Pennsylvania Festival of the Arts, which includes exhibitors from all over the United States; university and community theater productions; championship-quality Penn State sports such as football, basketball, wrestling, gymnastics, hockey, and more; and the Bryce Jordan Center, a state-of-the-art events center for concerts, family shows, trade shows, and inter-collegiate athletics.

The region offers a variety of historical and tourist-oriented spots as well. There's the Boal Mansion and Christopher Columbus Family Chapel in Boalsburg, historic Curtin Mansion and Curtin Village near Bellefonte, Penns Cave (the world's largest underwater cavern), the 18<sup>th</sup> Division Pennsylvania Military Museum in Boalsburg, Indian Caverns, and Penn State's many attractions.

Recreational areas within easy driving distance include Whipples Dam, Black Moshannon, Greenwood Furnace and Sayer Dam State Parks. State College has two community pools. Bike paths line the edge of town, and the Tussey Mountain Ski area provides a vertical drop of 500 feet.

For those who enjoy diverse social, recreational, and educational opportunities, "Happy Valley" is the place to be!

### Altoona

The Altoona campus is located at 508 58<sup>th</sup> Street, Altoona. It is close to the Altoona Mall and other eating and retail establishments. The school was established in 2001 when it was purchased from the Altoona School of Commerce. Additional space has been added at 541 58<sup>th</sup> Street.

The Christ Community United Methodist Church established a day care center to serve our school. The hours of operation are 9 a.m. to 5 p.m.; children of our faculty, staff and students from birth through school age may be enrolled.

### Lewistown

The Lewistown location is in the heart of downtown Lewistown at 124 East Market Street. The Lewistown location is an exciting educational venture founded to help better serve the educational needs of the Mifflin, Juniata, Perry and Snyder county areas.

The Mifflin County Industrial Development Corporation (MCIDC) and the MC-2000 Educational Board have agreed to work with South Hills School of Business & Technology by providing input as to the educational needs of the local communities. South Hills brings its own high-quality computer and office training closer to home for Lewistown and the surrounding areas.

## History . . .

South Hills School of Business & Technology is a co-educational, post-secondary institution serving the Central Pennsylvania area.

South Hills School of Business & Technology is the product of necessity, creativity, economics, dreams, and hard work. S. Paul Mazza, a former practicing attorney from State College, founded it in 1970. Starting with only seven students in the first class, it is now training over seven hundred students each year. This strong, steady growth is attributed to President Mazza's philosophy that all decisions are made on the basis of what's best for the students.

From 1970 to 1982 South Hills School found its home in State College. In August 1982 South Hills moved to larger quarters, a former elementary school building, in Boalsburg. In January 1989 South Hills returned to State College—its original home.

In 1976 South Hills School of Business & Technology received national accreditation as a business school through the Accrediting Council of Independent Colleges and Schools (ACICS).

In 1980 South Hills was granted approval to award the Associate in Specialized Business (ASB) degree in five program areas. In 1997 approval was granted to award the Associate in Specialized Technology (AST) degree. The school currently offers six ASB degrees (Business Administration – Accounting, Business Administration – Management & Marketing, Administrative Professional, Criminal Justice, Medical Assistant, and Medical Office Specialist) and five AST degrees (Health Information Technology, Diagnostic Medical Sonography, Information Technology, Graphic Arts, and Engineering Technology).

In 1996 the school expanded its State College facilities. The expansion allowed for a larger library as well as additional classrooms and a student commons area.

The Diagnostic Medical Sonography program was added in 1996. Two additional sonography programs were added in 1998 for those students entering with advanced standing.

The Philipsburg location was added in 1996 at the request of the Moshannon Valley Economic Development Partnership. This location closed in 2013.

In 1997 the Engineering Technology program was added to the program offerings and granted AST degree status in 1999. In 2006 the Graphic Arts AST degree program was added to the program offerings and in 2007, the ASB degree program Criminal Justice. The Medical Assistant ASB degree program was added in 2010.

The Lewistown location was added in 1999 at the request of the Mifflin County Industrial Development Corporation (MDIDC). Lewistown was granted approval to offer ASB degrees in the Administrative Professional, Business Administration – Management & Marketing and Criminal Justice programs and the Information Technology AST degree.

In 2001 the Altoona campus was opened when South Hills purchased the former Altoona School of Commerce. Altoona was granted approval to offer the ASB degree in the Administrative Professional, Business Administration – Accounting, Business Administration – Management & Marketing, Criminal Justice, Medical Assistant, and Medical Office Specialist programs and the AST degree in the Information Technology and Health Information Technology programs.

Under the direction of Mark Maggs, the South Hills School is serving a diverse population of recent high school graduates and returning adults. Diploma as well as ASB/AST degree programs are offered. The faculty and staff at the Main Campus now number 77; the student/faculty ratio is 10 to 1. The Lewistown faculty and staff number

15. The student/faculty ratio is 9 to 1. The faculty and staff at the Altoona Campus number 25; the student-faculty ratio is 10 to 1.

Students do come first at South Hills School of Business & Technology. We try to help the "whole" person with his/her many needs. In addition to the high-quality education, fine faculty and state-of-the-art equipment, counseling, recreation, and health are essentials at South Hills School.

## **Facilities and Equipment . . .**

### **State College**

The Main Campus building has 33,000 square feet of classroom and office space. The 19 classrooms (including a large lecture room), the library, the cafeteria, and the faculty and staff offices are all air-conditioned. Free parking is available.

School equipment has been selected to provide effective training on all types of machines that are recommended for today's office operations. Students are given instruction on office equipment such as various dictation/transcription equipment, computers, and copiers.

Our computer rooms are equipped with over 270 networked computers with Internet access.

Specialized equipment is used in the Sonography, Medical Assistant, and in the Engineering Technology programs.

South Hills School of Business & Technology added additional space in the fall of 2000. The additional space is located at 3081 Enterprise Drive in State College, is less than a mile from the main campus. The additional space is utilized by the Diagnostic Medical Sonography program for specialized equipment application courses and by the Medical Assistant program and for various other classes.

### **Lewistown**

The Lewistown location is within walking distance of several parking lots and numerous eateries. The school currently occupies approximately 10,500 square feet of classroom and office space that includes a front office area, classrooms, a student and faculty lounge, and a study area.

Over 75 computers with Internet access have been installed for student use.

### **Altoona**

The Altoona campus, located at 508 58<sup>th</sup> Street, Altoona, is close to the Altoona Mall and other eating and retail establishments. The school is approximately 15,000 square feet, containing eight classrooms, two break-room areas for students, a library-study room for student use, and administrative and faculty offices. There is a school parking lot that provides adequate free parking.

In 2011 additional classroom space was added. This additional space, located at 541 58<sup>th</sup> Street, is within easy walking distance of the main building.

Over 125 computers with Internet access have been installed for student use at the Altoona campus.

## **Altoona Location . . .**

The Altoona campus is located 48 miles from State College at 508 58<sup>th</sup> Street, Altoona. Established in 2001, the Altoona Campus admits students in various two-year degree programs. All programs may be entered in the fall, and all programs may be completed at the Altoona Campus. The students may have the option of transferring to the Main Campus.

## **Program Integration with Main Campus**

South Hills School of Business & Technology provides the same course work at the Altoona location as is provided at the Main Campus.

Students are able to complete associate degree programs at the Altoona campus. Students may enroll in the following programs: Business Administration – Accounting, Business Administration – Management & Marketing, Information Technology, Administrative Professional, Medical Office Specialist, Criminal Justice, Health Information Technology, and Medical Assistant.

## **Lewistown Location . . .**

The Lewistown school is located 30 miles from State College at 124 Market Street, Lewistown. The Lewistown location was established in 1999.

## **Program Integration with Main Campus**

South Hills School of Business & Technology provides the same course work at the Lewistown location as is provided at the Main Campus in State College.

Students have the opportunity to complete the following associate degree programs at the Lewistown location: Administrative Professional, Business Administration - Management & Marketing, Criminal Justice, and Information Technology. All other programs started in Lewistown must be completed at the State College or Altoona campus after the first two terms.

Students may transfer to State College after completing a program at the Lewistown school and receive advanced standing. Students may also choose to transfer to State College before completing a program. Advanced standing in a program at State College will be granted on the individual courses completed.

The Lewistown location of South Hills School of Business & Technology reserves the right to request students to attend classes at the Main Campus in State College if there are not enough students registered in a particular program.

## **Mission . . .**

The mission of South Hills School of Business & Technology is to offer qualified individuals the means to start and the encouragement to continue the lifelong growth process through higher education. In addition, South Hills School of Business & Technology has the obligation to create an educational atmosphere that will not only foster the highest standard of excellence in all students but also help those students to develop an awareness of social responsibility and ethical behavior.

## **Philosophy . . .**

South Hills School of Business & Technology was founded in 1970 based on the philosophy that each student, regardless of race, color, sex, age, religion, national origin, marital status, sexual orientation, ancestry, political belief, status as a veteran, or economic background is entitled to develop to his or her fullest potential. Based on this philosophy, the school accepts students from all walks of life.

## **Supporting Objectives . . .**

The principal goal of the school is to prepare students for jobs in the community; jobs that do, in fact, exist.

In order to accomplish this goal, South Hills School of Business & Technology established the following objectives: (1) the recruitment of secondary school graduates who are basically qualified to meet the

educational standards of the school; (2) the training of students in the vocational skills required for an entry-level job; (3) the instilling of attitudes which will be helpful in obtaining and retaining a job; (4) the placement of students in jobs that fit their talents, skills, maturity and experience by screening each graduate and giving specific aid in techniques for interviewing and applying for a job; and (5) the continuing evaluation and assessment of employers in the area which the school serves.

Our faculty and staff members are aware of these objectives and they conscientiously strive to help each student accomplish them. In furtherance of these objectives, the educational standards at South Hills School of Business & Technology are maintained at a consistently high level in order to challenge the student and produce a graduate that is dependable and well prepared.

Through a continuous evaluation of the school by the faculty, staff and students, South Hills School of Business & Technology prides itself in being a flexible educational institution, constantly striving to meet the changing needs of business and industry.

South Hills School also takes great pride in the caring attitude of the faculty and staff members. This attitude is imparted to the students with encouragement, dedication and a real interest in each student's well-being and academic progress.

Students at South Hills School are not just names or numbers. They are individuals with needs, talents and skills.

## Advising . . .

Branch Personal attention, advising, and counseling are an important part of your South Hills experience. We are about you and your concerns when you join our school. Your time at South Hills School should be fruitful—time dedicated to the acquisition and sharpening of skills and knowledge. The problems which come up should not be yours alone. For this reason, the faculty and staff make themselves available to you.

Advising and/or referral are available in the following areas:

Career Services. South Hills School has a Career Services staff who will assist you in finding your first job as well as with any changes you may wish to make later in your employment career.

Financial. Financing your education is another crucial area that makes your education possible. Our financial aid staff is available to assist you with your application for grants and loans, and the Bursar can answer any questions you have about your finances at South Hills School.

Academic. Students should see the Academic Affairs Officer at the Main Campus; the Program Advisor, Academic Affairs Coordinator or the Director in Altoona; or the Director, Student Services Assistant, or the program advisors at the Lewistown Location. Students having concerns about their major (program) may also see their advisors.

Personal. Staff members are available for you to talk to about personal concerns or problems and to provide referral information. Students should see the Academic Affairs Officer at the Main Campus, the Director and Academic Affairs Officer at the Lewistown Location, or the Director at the Altoona Campus.

In short, we care about you and your concerns when you join our school. Your time at South Hills School of Business & Technology should be fruitful—time dedicated to the acquisition and sharpening of skills and knowledge. The problems that come up should not be yours alone. For this reason, the faculty and staff make themselves available to you.

We're here to help.

## Career Services . . .

South Hills School offers career assistance to all South Hills School of Business & Technology graduates without cost to the graduate or the employer.

Our Career Services staff makes every effort to identify the qualities and skills of each graduate and to recommend graduates for positions requiring such attributes. South Hills School of Business & Technology cannot guarantee employment to graduates, but every attempt is made to help the graduate find a position that will offer both personal satisfaction and the greatest opportunity for growth.

The majority of students who attend South Hills School choose to live and work in Central Pennsylvania. Because of this most of the career assisting efforts are directed toward local employers. Students who wish to obtain employment elsewhere can also expect the most conscientious efforts of the career services office in trying to meet those wishes.

The Career Services Center staff provides job search assistance to students seeking fulltime, part-time, and temporary employment. Job openings and employer relations are developed through on-campus career and internship fairs, outreach efforts by the Career Services staff, and by the employers' ability to place job postings on the school website.

The State College Career Services staff also provides/shares job referrals and internship requests with the Lewistown location. In addition, each location utilizes a community advisory board for advice on issues such as curriculum development and how that relates to addressing the current employment needs of the business community.

## Application . . .

If you are interested in South Hills School of Business & Technology, you should apply for admission as early as possible. You may start the application process by submitting a pre-application online or by calling the admissions office.

The first step in the application process begins with a personal interview with an admissions representative. During the personal interview, the admissions representative will discuss your career interests to help you choose a program of interest. You will also receive a tour of the school, complete the entrance assessment and meet with a financial aid representative.

Admissions requirements are as follows:

- Interview
- High school diploma or equivalent or GED (high school attestation will be accepted if transcripts are not available at time of interview)
- Successful completion of entrance assessment
- Application
- Completion of additional admissions requirements for Diagnostic Medical Sonography, Criminal Justice, and Medical programs.

Completed applications are reviewed by the Director of Admissions or School Director upon receipt. Acceptance is based on the requirements listed above.

Upon acceptance, you will then complete an enrollment agreement.

Students who are not enrolled in a degree or diploma program and take classes are considered certificate students. They do not need to have any proof of academic qualifications to be enrolled in the school. Certificate students take courses to satisfy personal enrichment goals rather than completing a diploma or degree.

### Early Admit

Students who seek to take classes at South Hills School of Business & Technology while simultaneously completing their high school

graduation requirements are evaluated on an individual basis. They are required to submit an application, partial high school transcript(s), and a letter from their high school guidance counselor and/or principal granting permission for the student to attend South Hills School. The student must schedule an interview with the South Hills School Admissions Representative and complete the appropriate admissions testing.

A student accepted for admission at the South Hills School of Business & Technology on this basis is considered to be "early admit" pending the receipt of his/her final high school transcript reflecting a graduation date and final class rank. The student may not receive a diploma or degree from South Hills School until he/she has graduated from high school.

Note: Any exceptions to established admissions requirements will be made by the Director and the Regional Enrollment Director.

### **Additional Admissions Requirements Diagnostic Medical Sonography Programs**

Acceptance into the DMS program is competitive and is not on a first-come, first-serve basis. Completed applications are reviewed by a selection committee at intervals throughout the school year and successful applicants are chosen based on the criteria listed below.

Applicants of the DMS program should have a high school or post-secondary educational background that is strong in academic math and science. Biology, algebra, trigonometry and physics are preferred.

Prospective students are evaluated based on the following:

- High school program of study (specific courses completed, overall GPA, and class rank)
- Two letters of recommendation (guidelines provided by admissions representative)
- Entrance exam results
- Post-secondary education program (if applicable)
- SAT scores\*
- Prior experience in healthcare, paid or volunteer
- Resume

Based on the above criteria, qualified applicants will be selected for a personal interview with the DMS faculty. Upon completion of the faculty interview, the application will be reviewed by the selection committee.

\* SAT scores are strongly recommended for all applicants to the A.S.T. degree program.

Additional acceptance requirements include:

- Excellent written and verbal English communication skills
- Full use of both hands and wrists
- Ability to lift and move 50 pounds
- Ability to stand for extended periods of time
- Ability to visualize in dimly lit settings
- Ability to hear Doppler audio signals
- Criminal background check\*
- Completion of required immunizations and health record documentation\*\*
- Completion of drug history and testing\*\*\*
- Additional requirements\*\*\*\*

\*Documentation of criminal history from the Pennsylvania State Police Access to Criminal History (PATCH) is required for final acceptance into the program and again as a condition for internship placement. An FBI background check is required for applicants who have resided in the state of Pennsylvania for less than 2 years. Cost of the Pennsylvania State Police criminal background check is currently \$10. The cost of the FBI background check is variable. These costs are the responsibility of the applicant/student.

A child abuse background check is also required. The cost of the child abuse background check is currently \$10 and is the responsibility of the student.

Applicants are asked to declare previous arrests and/or convictions for any offense other than traffic violations. Conviction of certain offenses will result in ineligibility for this program and for credentialing examinations.

If a positive record is obtained from any criminal record report, the student/applicant will be advised as to the course of action to be taken by the school, which may result in disqualification from the program, depending on the nature and severity of the offense(s). One felony or two misdemeanors will disqualify the student/applicant from the program.

Various health care facilities in the area will no longer hire applicants who use tobacco products, including cigarettes, cigars and chewing or smokeless tobacco. Applicants will be screened for nicotine as part of the pre-employment physical process. Nicotine will be part of the urine drug screen. Applicants who test positive for nicotine will not be offered employment.

**Pregnancy Policy.** The sonography program curriculums are designed to follow a specific progression of classes to be completed in the designated time frame. The student must maintain fulltime status to be enrolled in the diagnostic medical sonography programs.

If any student needs to withdraw from the program due to pregnancy, and is in good standing, the student must reapply and will be guaranteed a seat. As stated in the South Hills School annual course catalog, students must complete the program within five years from the start date. If the withdrawal occurs within Terms 6-9 of the DMS program, 3-6 of the DPP program, or 1-4 of the DMP program, the student will be required to demonstrate academic and sonographic competency prior to re-enrollment. Sonographic competency is determined by the candidate successfully repeating the final scanning competency assessments in each class that includes a scanning component.

If any student needs to withdraw from the program and is not in good standing, please refer to the DMS disciplinary policy found in the DMS handbook.

As stated in the South Hills School annual course catalog, a student must attend 80 percent of the classes in any course to receive a passing grade. Any student who fails to attend 80 percent of the classes in a particular course will receive a failing grade.

Any deviation from the listed curriculum must be requested in writing and approved by the DMS Board. Each case is reviewed on an individual basis.

**Programmatic Prerequisite.** A student who is dismissed or who withdraws from the program for any reason other than pregnancy may reapply after successful completion of all required courses up to that point in the program. The student must again go through the application process; however, he/she is not guaranteed a seat in any program.

The student will be required to demonstrate academic and sonographic competency as a condition of reacceptance into the program. In all cases, the student must be able to complete the program within five years of the initial start date.

For further details, refer to the Programmatic Prerequisite section of the DMS handbook.

\*\*Students are required to obtain TB/PPD testing, Hepatitis B titer and/or vaccination, and other titers and vaccines as dictated by individual health history and childhood vaccination history (e.g. chicken pox). A physical examination by a physician may be required depending upon the internship site assigned. Costs for these requirements are the responsibility of the student.

\*\*\*Drug testing is required for internship site placement and will also be conducted at random times throughout the program. A positive test result for any illegal drug or controlled substance will result in immediate disqualification and dismissal from the program. Prohibited substances include, but are not limited to: amphetamines, barbiturates,

benzodiazepines, cocaine metabolites, methadone, methaqualone, opiates, phencyclidine, and propoxyphenes. Cost of the urine drug test is the responsibility of the student and will be added to the school invoice.

\*\*\*\* A complete description of technical standards for the Diagnostic Medical Sonographer profession based on ADA requirements can be found at:

[www.bls.gov/oco/print/ocos273.htm](http://www.bls.gov/oco/print/ocos273.htm) (General Track)  
[www.bls.gov/oco/ocos100.htm](http://www.bls.gov/oco/ocos100.htm) (Cardiac and Vascular Tracks)

#### **Applicants with Previous Degree or Diploma**

Two diploma programs exist for the purpose of accommodating applicants with specific educational backgrounds. Interested applicants should consult with one of our admissions representatives to determine which program best meets their needs and educational objectives.

**DMS Professional Program (DMP)** This diploma program is designed for applicants with a previous degree or diploma or equivalent in a medical imaging specialty such as Radiologic Technology or Nuclear Medicine Technology. It assumes a strong background in anatomy, physiology, medical terminology, patient care, and imaging sciences.

Applicants for the DMP program will be considered when their admissions requirements are completed. Documentation of American Heart Association First Aid and CPR, BLS for Healthcare Providers Program is required and must be valid through the clinical internship.

**DMS Professional Plus Program (DPP)** This diploma program is designed for applicants with a previous Bachelor's degree\* in a field other than Medical Imaging. The program includes courses in anatomy, physiology, medical terminology, patient care, and medical imaging sciences. Applicants for the DPP program will be considered when their admissions requirements are completed.

\*The Bachelor of Science or Bachelor of Arts degree must have been completed within 15 years of the DPP program start date in order for the applicant to be eligible for this program.

**Students Enrolled in B.S. Degree Programs in Medical Imaging at Other Institutions** Students may be eligible to enter the DMP program when it is a component of a Bachelor's Degree program at another institution. This is subject to a formal agreement between South Hills School and the articulating institution, and must be approved on an individual basis. Such students must complete their B.S. degree in order to be eligible to sit for the ARDMS® registry examinations.

**Transfer Credits** Any student wishing to receive transfer credit from another institution is responsible for providing the previous institution's official transcript along with course descriptions. Each course will be reviewed on an individual basis and is not guaranteed to apply to South Hills School course credit. A grade of "C" or better is required in each general education course, and a "B" or better in each specialty or technical course being reviewed, in order for transfer credit to be considered. Transfer credits must be declared and approved prior to the start of the program or no transfer credit will be granted.

**South Hills School Student Transfer** If a current South Hills student wishes to transfer into the DMS program, the student must speak with an admissions representative to initiate the DMS application process. Additional terms will most likely be required. Each applicant is reviewed on an individual basis. See application process above.

Please refer to the DMS Handbook for further details.

### **Additional Admissions Requirements Graphic Arts Program**

In addition to the general admissions requirements for the school, the following requirements specifically apply to the Graphic Arts program.

During the interview, applicants to the Graphic Arts program will discuss their past and present interest in art and design and why they feel they would be an appropriate candidate for the program. Our goal is to see that the students entering this program are artistically inclined and have a natural, ongoing interest in art and design.

**Guidelines for Art Work Submissions.** All applicants will also be required to submit their works of art for review by our Graphic Arts Review Panel. No more than five examples of each of the following types of artwork are to be submitted: drawings, paintings, graphic designs, communication design, photography, 3-D fine art pieces, printed and/or published pieces or other forms of fine art. Each applicant is also required to produce a self portrait piece for submission. The self portrait may be done in the art medium of the applicant's choice.

Ultimately, select your best work and include examples that you have done on your own beyond your art class assignments. Applicants may also submit sketchbooks. In doing so, this allows the Review Panel to gain a better understanding of the applicant's art background and varied skill set(s) achieved. Artwork can be submitted as hard copy entries or CD-ROM entries (PDF or JPG format only). For all 3-D pieces, please provide the Review Panel with quality photographs of the work instead of the actual piece.

Acceptance into the Graphic Arts program is competitive and is not on a first-come, first-serve basis. Completed applications are pooled, and then successful applicants are chosen from the current group of qualified applicants on successive dates throughout the year. It is extremely important for the qualified applicants to apply early in the admissions process to maximize their chances for acceptance into the Graphic Arts program.

### **Additional Admissions Requirements Criminal Justice Program**

In addition to the general admissions requirements, the following requirements specifically apply to the Criminal Justice program.

As a condition of acceptance to the Criminal Justice program, the school will request documentation of criminal history from the Pennsylvania State Police Access to Criminal History (PATCH). Cost of the Pennsylvania State Police criminal background check is currently \$10 and is the responsibility of the student/applicant. A second criminal history check may be required prior to internship placement and the cost again is the responsibility of the student/applicant.

Also as a condition of acceptance into the Criminal Justice program, the school will request documentation of a Child Abuse History Clearance from the Department of Public Welfare. Cost of the Child Abuse History Clearance is currently \$10 and is the responsibility of the applicant.

An FBI background check is required for applicants who have resided in Pennsylvania for less than two years. Cost of the FBI background check is variable and is the responsibility of the student.

Applicants are asked to declare ALL previous arrests and/or convictions for any offense other than traffic violations.

Conviction of, plea of guilty, plea of nolo contendere (no contest), or pending criminal charges involving the following WILL bar admission to and WILL be grounds for dismissal from the Criminal Justice Program:

- Any and all felonies;
- Two misdemeanors;
- Crimes involving violence against the person, including, but not limited to, child abuse and domestic violence;
- Crimes involving possession with intent to deliver or sell illegal drugs;
- Crimes involving illegal use or possession of weapons, including, but not limited to: guns, knives, explosives or other dangerous objects.
- Crimes involving dishonesty including: perjury, fraud, deception, or embezzlement.
- Any other crime(s) or pattern of recurrent criminal or illegal behavior(s) will be reviewed on an individual basis.



If applicant is currently on probation or parole, he/she will not be considered for admission to the program until such time as their sentence had been completed.

### **Additional Admissions Requirements Health Information Technology Program**

In addition to the general admissions requirements, the following requirements specifically apply to the Health Information technology program.

Documentation of criminal history from the Pennsylvania State Police Access to Criminal History (PATCH) is required for internship placement. Background checks must be done within one year prior to internship placement. Conviction of certain offenses may result in ineligibility for an internship placement. If a positive record is obtained, the student/applicant will be advised as to the course of action to be taken by the school/internship site, which may result in disqualification from the program, depending on the nature and severity of the offense(s). Under the Older Adult Protective Services Act, a student may be prohibited by law from employment in certain medical occupations. Cost of the Pennsylvania State Police criminal background check is currently \$10 and is the responsibility of the applicant.

An FBI background check is required for applicants who have resided in Pennsylvania for less than two years. If a positive record is obtained, the applicant will be advised as to the course of action to be taken by the school, which may result in disqualification from the program depending on the nature and severity of the offense(s). If the record contains one felony or two misdemeanors, the student/applicant will be disqualified from the program. Cost of the FBI background check is variable and is the responsibility of the student.

A child abuse background check is also required. Cost the child abuse background check is currently \$10 and is the responsibility of the student.

Various health care facilities in the area will no longer hire applicants who use tobacco products, including cigarettes, cigars and chewing or smokeless tobacco. Applicants will be screened for nicotine as part of the pre-employment physical process. Nicotine will be part of the urine drug screen. Applicants who test positive for nicotine will not be offered employment.

Based upon individual site assignment, other internship placement requirements may include, but are not limited to: drug testing, various disease testing, physical examination, and an FBI criminal background check. All costs are the responsibility of the student.

Students enrolled in the Health Information Technology program must earn a "C" or better in ALL courses in order to graduate. This requirement also applies to the student's eligibility to sit for the Registered Health Information Technology (RHIT) examination. Students earning less than a "C" would have to repeat the course or courses before they earn their associate degree in this field or take the RHIT examination.

Entrance into each term is granted after successful completion of the coursework in prior terms. Successful completion constitutes a "C-" or better in all major specific courses. A major specific course is any course that begins with HI, MA, or MD in the course number.

A student who is dismissed or who withdraws from the program may reapply after successful completion of all required courses up to that point in the program.

### **Additional Admissions Requirements Medical Assistant Program**

In addition to the general admissions requirements, the following requirements specifically apply to the Medical Office Specialist program.

Documentation of criminal history from the Pennsylvania State Police Access to Criminal History (PATCH) is required for final acceptance into the program and as a condition for internship placement. An FBI

background check is required for applicants who have resided in the Commonwealth of Pennsylvania for less than two years. If a positive record is obtained, the student/applicant will be advised as to the course of action to be taken by the school/internship site, which may result in disqualification from the program, depending on the nature and severity of the offense(s). If the record contains one felony or two misdemeanors, the student/applicant will be disqualified from the program. Under the Older Adult Protective Services Act, a student may be prohibited by law from employment in certain medical occupations. Cost of the Pennsylvania State Police criminal background check is currently \$10 and is the responsibility of the student.

A child abuse background check is also required. The cost of the child abuse background check, currently \$10, is the responsibility of the student. In addition to the above, students must sign the venipuncture and injection participation release and indemnification agreement.

Based upon individual internship site arrangements, other medical screening requirements may include, but are not limited to: drug testing, various disease testing, physical examination, and FBI criminal background check. All costs are the responsibility of the student.

Various health care facilities in the area will no longer hire applicants who use tobacco products, including cigarettes, cigars and chewing or smokeless tobacco. Applicants will be screened for nicotine as part of the pre-employment physical process. Nicotine will be part of the urine drug screen. Applicants who test positive for nicotine will not be offered employment.

Entrance into each term is granted after successful completion of the coursework in prior terms. Successful completion constitutes a "C-" or better in all major specific courses. A major specific course is any course that begins with HI, MA, or MD in the course number.

A student who is dismissed or who withdraws from the program may reapply after successful completion of all required courses up to that point in the program.

### **Additional Admissions Requirements Medical Office Specialist Program**

In addition to the general admissions requirements, the following requirements specifically apply to the Medical Office Specialist program during the second year of the program.

Documentation of criminal history from the Pennsylvania State Police Access to Criminal History (PATCH) is required for final acceptance into the program and as a condition for internship placement. An FBI background check is required for applicants who have resided in the Commonwealth of Pennsylvania for less than two years. If a positive record is obtained, the student/applicant will be advised as to the course of action to be taken by the school/internship site, which may result in disqualification from the program, depending on the nature and severity of the offense(s). Under the Older Adult Protective Services Act, a student may be prohibited by law from employment in certain medical occupations. Cost of the Pennsylvania State Police criminal background check is currently \$10 and is the responsibility of the student. Cost of the FBI background check is variable and is the responsibility of the student.

Based upon individual site assignments, other medical screening requirements may include, but are not limited to: drug testing, various disease testing, and physical examination. All costs are the responsibility of the student.

Various health care facilities in the area will no longer hire applicants who use tobacco products, including cigarettes, cigars and chewing or smokeless tobacco. Applicants will be screened for nicotine as part of the pre-employment physical process. Nicotine will be part of the urine drug screen. Applicants who test positive for nicotine will not be offered employment.

Entrance into each term is granted after successful completion of the coursework in prior terms. Successful completion constitutes a "C-" or better in all major specific courses. A major specific course is any course that begins with HI, MA, or MD in the course number.

A student who is dismissed or who withdraws from the program may reapply after successful completion of all required courses up to that point in the program.

*South Hills runs criminal background checks on applicants for all allied health programs. If the result of this check shows that the applicant has two misdemeanors or one felony, they will not be accepted to any of these programs as it severely impedes the opportunity for internship, employment, and credentialing opportunities.*

## Enrollment . . .

The three types of enrollment at South Hills School of Business & Technology are:

Degree students take and complete a two- or three-year course of study and receive an associate in specialized business (ASB) or an associate in specialized technology (AST) degree upon successful completion of the program and achievement of the school standards.

Diploma students take and complete a 15-month to two-year course of study and receive a diploma upon successful completion of the courses and achievement of school standards.

Certificate students take one or more of the listed diploma/degree classes and receive, when school standards are achieved, a "certificate of achievement" stating that proficiency has been attained.

## Entrance Dates . . .

State College. All programs may be entered in the fall term of each year. Students may enter during the winter or spring terms with the understanding that they may be out of sequence for courses that are offered only once a year. Consequently, they may take longer to complete their program of study.

Altoona. Entrance dates for the Altoona school are the same as those described above for the Main Campus.

Lewistown. Entrance dates for the Lewistown location are the same as those for the Main Campus.

Note: A student may begin his/her initial term of training up to one week after the term begins. This exception (requesting enrollment after the first week of a term) is at the discretion of the Director and Director of Admissions. This applies to enrollment at the Main Campus, the Lewistown location, and the Altoona campus.

## Terms . . .

Fall, winter and spring terms are 12 weeks in length.

Students enrolled in seven-term programs use the summer term in their second year for internship.

The summer term for classes (other than internships) at any of the campuses or locations is 10 weeks in length.

During the summer months remedial courses or repeat courses may be offered when warranted.

## Housing . . .

Many reasonable apartment units are available in complexes surrounding the Main Campus of South Hills School of Business & Technology. If you are interested in finding an apartment or roommates, contact the admissions department.

South Hills School does not provide housing for out-of-town students, but it does offer assistance in finding apartments and bringing together students who are interested in apartment living.

## Cafeteria/Lunch Hours . . .

South Hills School of Business & Technology has a full-service cafeteria operating on the premises of the Main Campus. A continental breakfast is served from 7:15 a.m. to 11:00 a.m. A varied luncheon menu is served daily from 11:30 a.m. to 1:30 p.m. providing items a la carte. Vending machines are also available, as are refrigerators and microwaves for those students wishing to bring their own lunches. There are two lunch hours scheduled at the Main Campus.

One or two lunch hours are scheduled at all other locations.

## Hours . . .

State College. Classes are scheduled Monday through Friday between 8:30 a.m. and 5:45 p.m. Occasionally a class may be scheduled for later in the day. Individual schedules will vary from term to term. The school's business hours are from 8:00 a.m. to 4:30 p.m.

Altoona. Classes are scheduled Monday through Friday from 8:30 a.m. to 4:30 p.m. The school's business hours are from 8:00 a.m. to 4:30 p.m.

Lewistown. Classes are scheduled Monday Through Friday from 8:30 a.m. to 4:30 p.m. The school's business hours are from 8:00 a.m. to 4:30 p.m.

## Common Hour . . .

Common hour was established to allow a time when all students would have the same hour off so that they may take part in student activities and so that outside speakers could be invited to speak to the entire student body.

Common hour at all locations occurs every Tuesday and Wednesday during the term.

Classes are shortened by five minutes each to allow for the common hour, which is from 11:45 a.m. to 12:55 p.m. Students may also use the common hour to meet with advisors or to get help from teachers.

## Dress and Conduct . . .

In keeping with the businesslike environment of South Hills School of Business & Technology, it is expected that students will be neat, clean and dressed appropriately at all times.

The administration expects all students to behave in an acceptable, businesslike manner and to devote their school hours to preparing for a profitable career. The school reserves the right to dismiss any student whose conduct is unsatisfactory.

## Exemption Tests . . .

Exemption tests are available to take from a limited number of classes. A \$25 fee is required for all exemption tests except Algebra, Introduction to Computing, Keyboarding Essentials, and Computer Fundamentals.

A \$25 per-credit charge will be assessed when a new test is developed for an individual request.

Exemption tests must be taken prior to the beginning of the term in which the student is scheduled for the class.

The Director or the Director of Education will decide any exceptions to this policy.

## Financial Aid . . .

So you want to go to school, but how do you pay for it? Meeting the cost of education can be a burden on any student or family. For this reason, many students wish to obtain financial assistance to further their education.

The following information describes the types of financial aid available to those who qualify. Please call our Financial Aid office so that we may answer your questions and make an appointment to assist you with your financial aid package.

All questions regarding financial aid should be directed to the Financial Aid office at South Hills School.

**Academic Year.** For financial aid purposes an academic year consists of three quarter terms (10-12 weeks in length). A full-time student must complete 12 quarter credits per term or 36 quarter credits per year.

**Please keep in mind dropping/adding courses and changing programs during enrollment may affect financial aid eligibility.**

**Applying for Financial Aid.** Students may be eligible for grants and loans provided they file a Free Application for Federal Student Aid (FAFSA). Complete the FAFSA online at [www.fafsa.ed.gov](http://www.fafsa.ed.gov).

**Filing Dates.** For the fall term 2013-2014 the application may be filed as early as January 1, 2013 and no later than June 30, of 2014.

**Federal PIN.** The online FAFSA should be signed with a Federal PIN. Apply for the PIN online at [www.pin.ed.gov](http://www.pin.ed.gov). Dependent students will need to have one parent apply for a Federal PIN. The Federal PIN may also be used to sign online loan applications.

**General Correspondence.** The Financial Aid office will correspond with students via their email accounts. It is important that each student access their sage account with South Hills to stay informed on the latest financial aid information.

### AID AVAILABLE

#### Title IV Aid

**Federal Pell Grant.** Pell grants are awarded to students who demonstrate exceptional financial need as defined by the Federal government. Grant amounts are determined by the student's "Expected Family Contribution" (EFC), which is indicated on their Student Aid Report (SAR).

Eligibility requirements include

- Having earned less than a Bachelor's degree.
- Having graduated from high school or earned a GED.
- Enroll at least half-time in a program of study.
- EFC is within eligible ranges.
- Maintaining satisfactory academic progress.

**William D. Ford Federal Direct Loans.** The following Direct Loans are made through the William D. Ford Federal Direct Loan (Direct Loan) Program, which is administered by the U.S. Department of Education (USDE). The lender is the USDE and will be throughout the life of the loan.

**Direct Subsidized Loans.** These loans are awarded on the basis of financial need. No interest is charged while a student is enrolled at least half-time.

**Direct Unsubsidized Loans.** These loans are not based on financial need. Interest is charged during all periods, including while the student is in school and during grace and deferment periods. The student may choose to defer interest payments while in school and the interest will be added to the unpaid principal amount of their loan. This is called "capitalization" and this could substantially increase the total amount of repayment. Making interest payments while in school are advantageous and will save the student money overall.

Direct Subsidized and Direct Unsubsidized Loans are made to eligible students attending school at least half-time in a program of study that is making satisfactory academic progress. Repayment begins six months after graduation or six months after the student ceases to be enrolled at least half-time.

Before a loan will be certified by the Financial Aid office, the student must sign and return an Enrollment Agreement indicating his/her intention to attend school, complete a disclosure statement, Entrance Counseling and a Master Promissory Note (MPN). Also, the student cannot be in default and must not have reached their aggregate loan limits (see Loan Limits Table).

Entrance Counseling and MPN completions should be done by going to [www.studentloans.gov](http://www.studentloans.gov) and should be signed using the same Federal PIN as used to sign the FAFSA.

The actual loan amounts and types of loans (subsidized, unsubsidized or a combination of both) that students are eligible to receive each year are determined by the Financial Aid office, based on such factors as the cost of attendance, EFC, other financial aid and the length of a program. The actual amounts that a student is eligible to borrow may be less than the maximum amounts shown (see Loan Limits Table).

Loan Limits Table

Annual Loan Limits for Direct Subsidized and Direct Unsubsidized Loans			
Level	Completed Credits	Dependent Undergraduate Students	Independent Undergraduate Students*
1 <sup>st</sup> year	0-36	\$5,500 (maximum \$3,500 subsidized)	\$9,500 (maximum \$3,500 subsidized)
2 <sup>nd</sup> year	36-72	\$6,500 (maximum \$4,500 subsidized)	\$10,500 (maximum \$4,500 subsidized)
3 <sup>rd</sup> year	72-134	\$7,500 (maximum \$5,500 subsidized)	\$12,500 (maximum \$5,500 subsidized)

\*Dependent students whose parents are unable to get PLUS Loans are eligible to receive the independent undergraduate loan limits.

Aggregate Loan Limits: Maximum Total Outstanding Loan Debt		
	Dependent Undergraduate Students	Independent Undergraduate Students
Undergraduate	\$31,000 (maximum \$23,000 subsidized)	\$57,500 (maximum \$23,000 subsidized)

Direct Subsidized and Unsubsidized Loans have a fixed interest rate. Fixed rates are a set rate for the life of the loan. Please refer to [www.studentloans.gov](http://www.studentloans.gov) for current rate information.

The student receives a disclosure statement that gives specific information about any loan that the school plans to disburse under their MPN, including the loan amount and loan fees. The disclosure statement also explains how to cancel their loan if they don't want it or a portion of it.

Loan monies are to be used only to pay for educational expenses at the school that is giving the loan. Education expenses include such school charges as tuition, fees and such indirect expenses as books, supplies, equipment, living expenses, dependent child care expenses, transportation and rental or purchase of a personal computer.

**Plus Loans.** These loans are also administered through the USDE and are available to parents of dependent undergraduate students to

meet educational costs. Parents may borrow up to the cost of attendance minus all other financial assistance that the student is awarded. Eligibility for a Plus Loan is based on credit worthiness of the parent borrower.

Interest is charged during all periods. For current interest rate and origination fee information, refer to [www.studentloans.gov](http://www.studentloans.gov). Repayment begins 60 days after the funds are fully disbursed, and the repayment term is up to 10 years. Parents have the option of deferring repayment on Parent Plus Loans while the undergraduate student on whose behalf they borrowed the Plus Loan is in-school and for a six-month grace period after the student graduates or drops below full-time enrollment.

Plus applications should be completed online at [www.studentloans.gov](http://www.studentloans.gov) and should be signed by the Federal PIN the parent used to sign the FAFSA.

**Loan Disbursements.** Loan proceeds are sent directly to the Bursar's office at South Hills School and will be credited to the student's account. Two or three disbursements will be made for each approved loan. Proceeds cannot be credited to the student's account without the student's signed authorization and until the loan funds are received by the school. Students will be notified when the funds have arrived or the loan has been disbursed to the account.

The amount of loan proceeds retained by the school will depend on the amount of the loan, the amount owed by the student minus grant (s), if applicable, and the number of disbursements. If a student account is overpaid, a refund will be given to the student/parent within the time period mandated by Federal law.

The student or parent borrower has the right to cancel or reject all or part of the loan within 30 days from the date the loan proceeds were credited to the students account.

If a student withdraws from school and a Direct Subsidized, Unsubsidized or Plus Loan has been disbursed on behalf of the student, a Federally mandated calculation must be done to determine how much of the loan proceeds may be retained by the student and how much must be returned to the lender (USDE) by the school (See Refund Policy).

Sources for Title IV Aid:

1. Entrance Counseling Guide for Direct Loan Borrowers produced by USDE
2. [www.finaid.org](http://www.finaid.org)
3. [www.studentaid.ed.gov](http://www.studentaid.ed.gov)

#### State Aid

#### **Pennsylvania Higher Education Assistance Agency (PHEAA) State Grant**

To be considered for a PHEAA State Grant you must meet the following criteria:

- Have earned less than a Bachelor's degree.
- File the FAFSA before the state deadline (see below for filing dates)
- Complete a PHEAA State Grant Application ([www.pheaa.org](http://www.pheaa.org))
- Demonstrate exceptional financial need.
- High school graduate as stipulated in the PA State Grant Law.
- Be enrolled in a two- or three-year program.
- Be a resident of Pennsylvania as defined by PHEAA.
- Be attending at least half-time.
- Maintain satisfactory academic progress as defined by PHEAA.
- Not be in default or pending default on an educational loan.
- Not received the maximum number of PA State Grants permitted.

For further eligibility information, refer to [www.pheaa.org](http://www.pheaa.org).

**Filing Dates.** For incoming students, present students, and transfer students who have not previously applied for or received a PHEAA State Grant, the deadline to file the FAFSA for state grant award

consideration for the fall term is August 1. Applications may be filed as early as January 1.

For students who are present recipients of a PHEAA State Grant or those transfer students that have previously received a PHEAA State Grant, the deadline to file the FAFSA for state grant award consideration for the next academic year beginning the fall term or summer internship is May 1. Applications may be filed as early as January 1.

**State Grant Eligibility for a Transfer Student.** If a PHEAA State Grant was awarded at a prior institution, requirements for meeting academic progress standards must be met before a grant can be awarded.

- Student must submit an official academic transcript from the prior college(s) attended.
- Semester and quarter credits will be evaluated by the Financial Aid office to determine academic progress.

#### Scholarships

**South Hills School of Business & Technology Scholarship.** SHSBT will offer a maximum of seven new scholarships each school year. There are five scholarships awarded at State College, two at Altoona, and one at Lewistown. The scholarship is valued at 25 percent of the cost of tuition. It is given to those students who demonstrate economic hardship and would benefit from this scholarship. Scholarships are granted without regard to race, color, creed, sexual orientation, religion, age, disability or national origin.

A student meeting the following qualifications for the scholarship must submit a letter of application to the Scholarship Committee for review. The application deadline is December 20. Applicants will be notified of the committee's decision within thirty (30) days of the application deadline.

Qualifications for the SHSBT Scholarship are as follows:

1. At the time of application, students must be enrolled fulltime in a diploma or degree program of study.
2. Students must have completed a minimum of one full term of study at the time of application.
3. Students must have a minimum 3.0 cumulative grade-point average in each term.
4. The student's financial records must prove financial need which is determined by the Scholarship Committee.
5. Students must have completed a FAFSA in a timely fashion and submitted forms for any applicable state and Federal grants.
6. Submit a formally typed letter of application (1-2 pages) that indicates the applicant's name, program and year of study, educational and career goals. The applicant should state how receiving the school scholarship would benefit him/her in his/her pursuit of the stated goals. Other information pertinent for review by the committee is additionally welcome in the application letter.

The scholarship is valued at 25 percent of tuition. If the balance of tuition due after applying grants, agency sponsorship, and/or other scholarships is less than 25 percent of the total tuition, the SHSBT scholarship will be limited to that amount.

The scholarship will be credited retroactively to the first term of the school year in which the scholarship is granted. It will be credited to the recipient's account on a term-by-term basis through graduation when eligibility is maintained. The school scholarship will be permanently forfeited when eligibility is lost.

Maintaining the SHSBT Scholarship:

1. Maintain a minimum 3.0 cumulative grade-point average each term.
2. Maintain fulltime enrollment status.
  - (a) In the event a scholarship recipient must temporarily withdraw from school, he/she must promptly report this withdrawal to the office of academic affairs and the business office.

- (b) After a leave of absence for one term maximum, he/she must personally arrange for reinstatement of the scholarship with the Business office.
  - (c) If withdrawn for more than one term, he/she must reapply for the scholarship.
3. Maintain acceptable behavior and attendance records while a student at South Hills School of Business & Technology.

**International Scholarship.** The State College campus of South Hills School annually awards a maximum of two new International Scholarships. The scholarship is valued at 25 percent of the cost of tuition. Scholarships are granted without regard to race, color, creed, sexual orientation, religion, age, disability, or national origin.

**International Scholarship Eligibility Criteria:**

1. At the time of application, students must be enrolled fulltime in a diploma or degree program of study.
2. International students must hold active M-1 Visa status. (No US born citizens may apply.)
3. Students must have completed at least one full term of study.
4. Students must have a minimum 3.0 cumulative grade-point average.
5. Students must submit a one- to two-page essay indicating the applicant's name, country of birth, program and year of study, educational and career goals. International students must state how receiving the International School Scholarship would benefit him/her in his/her pursuit of the stated goals. Other information pertinent for review by the committee is additionally welcome in the letter of application.

The application deadline is December 20. International Scholarship applicants will be notified of the committee's decision within 30 days of the application deadline.

The scholarship is valued at 25 percent of tuition. It will be credited to the recipient's account on a term-by-term basis through graduation only when eligibility is maintained. It will be credited retroactively to the first term of the school year in which the scholarship is granted. The International Scholarship will be permanently forfeited when eligibility is lost.

**Maintaining the International Scholarship:**

1. Maintain a minimum 3.0 cumulative grade-point average each term.
2. Maintain full-time enrollment status.
  - (a) In the event a scholarship recipient must temporarily withdraw from school, he/she must promptly report this withdrawal to the Office of Academic Affairs and the business office.
  - (b) After a leave of absence for one term maximum, he/she must personally arrange for reinstatement of the International Scholarship with the business office.
  - (c) If withdrawn for more than one term, he/she must reapply for the International Scholarship.
3. Maintain acceptable behavior and attendance records while a student at South Hills School of Business & Technology.

**PA Cooperative Education Association (PCEA) Scholarship.** This scholarship is available to students who choose to enter South Hills School of Business & Technology as full-time students in any of the ASB/AST degree programs offered at the school.

South Hills will annually award a maximum of three PCEA Scholarships—one each for State College, Altoona, and Philipsburg locations.

The scholarship amount is for 25 percent of the cost of tuition. Each scholarship shall be credited toward the cost of tuition only (student activity fee, books, and supplies are not included) starting in the first term of the upcoming academic year.

**South Hills School/PCEA Scholarship Criteria:**

- High school senior fulfilling graduation requirements
- Must be participating in a Cooperative Education Program in his/her high school
- Submit application for admissions to South Hills School as a fulltime student in an ASB/AST program
- Must meet regular admissions requirements of South Hills School based on evaluation of high school transcripts or equivalent or GED, a personal interview, and a passing score on the entrance exam
- The application must be returned by the deadline set by PCEA to the address noted on the application
- PCEA will evaluate the applicants based upon:
  - A letter of recommendation from the Co-op Coordinator
  - A letter of recommendation from the employer
  - A letter of recommendation from a teacher, counselor, or administrator
  - A student essay
  - The student's active training plan
  - The student's resume
- After evaluation of the scholarship applications, PCEA will notify the finalists for the scholarship and schedule interviews
- PCEA will then select the scholarship winners
- Scholarships are granted without regard to race, color, creed, sexual orientation, religion, age, disability, or national origin

**Maintaining PCEA Scholarship:**

- (1) Maintain a 3.0 cumulative grade-point average in each term to continue receiving the scholarship funds
- (2) Maintain full-time enrollment in an ASB/AST degree program
  - (a) In the event a scholarship recipient must temporarily withdraw from school, he/she must promptly report this withdrawal to the Office of Academic Affairs
  - (b) He/she may request reinstatement of the scholarship after a maximum one-term leave of absence
  - (c) After a leave of absence of more than one term, he/she must reapply for a South Hills/PCEA Scholarship
- (3) Maintain acceptable behavior while in attendance at South Hills School of Business & Technology.

**Other information**

**Agency Funding** Agencies such as Veterans Administration (VA), Trade Assistance Act (TAA), Workforce Investment Act (WIA), Office of Vocational Rehabilitation (OVR), and Department of Public Welfare (DPW) have provided assistance to students attending South Hills School. For more information contact the Financial Aid office.

**Financial Aid Award Letter** The financial aid award letter lists the aid programs offered to the student, amounts by term, and the total amount offered for the academic year. Students may choose to opt-out of receiving the award letters through email by contacting the Financial Aid office.

A student may accept all or part of the package being offered. If a student is declining part of the aid offered, they must identify which type of award they are rejecting and return the amended award letter to the Financial Aid office. This will in no way affect their eligibility for other awards. Refer to Loan Disbursements under Title IV Aid for the timeline to cancel or reject all or part of any Federal Loans.

**Verification** This is the process used to check the accuracy of the information provided when the FAFSA was filed. The U.S. Department of Education selects applicants for the verification process. Should a student be selected for this process, they will be asked to submit specific information to the Financial Aid office. The Financial Aid office will submit any changes that need to be made as a result of verification. If the verification results in an over award to the student, the school will make the adjustment with the U.S. Department of Education. All over-payment cases will be reported to the U.S. Department of Education whether occurring at South Hills School of Business & Technology or a prior school. The student will be sent an updated award letter if there's a change in the award.

**Satisfactory Academic Progress for PHEAA State Grant** A full-time student must complete 12 quarter credits per term or 36 quarter credits per academic year to maintain eligibility for the state grant. If a student does not meet the required credits for progress, no state grant will be

awarded until progress is made. Notification is provided to those students that haven't made progress via a new award letter along with a letter explaining how many credits must be earned in order to regain their eligibility.

**Satisfactory Academic Progress (SAP) for Title IV Aid (Federal Pell Grant, Direct Loans)** The satisfactory academic progress (SAP) policy has two standards of measure. Both standards of measure must be met to make progress for Title IV Aid. Progress checks are performed at the end of each term. *All SAP notifications are sent to the student's South Hills email account.*

**Qualitative** – At the time of a progress check the student must maintain at least a 2.0 GPA for the term as well as for his/her cumulative GPA.

**Quantitative** – At the time of a progress check the student has to complete 67 percent of credits attempted for each term as well as overall in his/her program. The maximum time frame to complete a program is 1.5 times the length of the program measured in credits attempted.

The pace of earning credits must be such that by the 50 percent point a student must have earned 67 percent of credits attempted at the progress check. Withdrawals, repeated and incomplete courses will have a negative impact on the student's pace. If SAP or the pace is not met, a student's financial aid may be compromised.

**Financial Aid (FA) Warning** – If either the quantitative or qualitative measures are not met at the time of a progress check, then the student will be placed on Financial Aid (FA) Warning which permits he/she to have one term of financial aid without the need for an appeal. **No student may have more than one consecutive payment period (term) of FA Warning.** To be removed from FA Warning a student must meet the same measurements as mentioned above at the time of the next progress check. If a student has not met SAP standards by the end of the payment period (term) of FA Warning he/she must formally appeal in writing to the school's Academic Progress Committee.

**Appeal** – If a student does not meet SAP standards by the end of the payment period (term) on FA Warning he/she must appeal to the school's Academic Progress Committee. An Appeal is to be submitted in writing by the student who is not meeting SAP standards and is requesting reconsideration of his/her aid for one additional term following the payment period (term) of FA Warning. For further details and explanation see "Appeal Process" in the "Satisfactory Academic Progress" section.

**Probation** - If the appeal is successful, the student will be placed on Probation for one term and continue to receive Title IV aid. **Students may not be placed on Probation for more than one term.** To be removed from Probation the student must meet SAP standards. At the end of the term on Probation, and if the student does not meet the same requirements as stated above, they will be dismissed from his/her program and will no longer be eligible for Title IV aid.

**Out of Program** - Once the student has been dismissed from his/her program, the student may return to school as a certificate student. **While the student is considered "out of program" he/she is not eligible for financial aid. The student who has been dismissed from his/her program for failing to meet SAP after Probation cannot be reinstated into the program in which he/she was originally enrolled.**

**Regaining Eligibility** – The student will not be able to enroll in any program or be eligible for financial aid until the term and cumulative GPA reaches a 2.0 and the student has earned 67 percent of the credits attempted in that term as well as overall towards his/her new (intended) program. The student *may* then be eligible for federal, state or other student financial aid. However, in no circumstances may the student exceed the quantitative SAP standard as outlined above and graduate in a diploma or degree program. For further details and explanation see the "Satisfactory Academic Progress" section.

**Incompletes** See "Incompletes" in the "Satisfactory Academic Progress" section.

**Withdrawals** When a student drops a course and receives a withdrawal on his/her transcript (for whatever reason), the withdrawn course is counted as credits attempted but not earned.

**Repeat Classes** Repeat classes count when measuring credits attempted. When calculating the cumulative GPA the best grade is used.

**Transfer Credits** Transfer credits that apply to the program count toward the actual time frame (quantitative standard) of a student's program. For financial aid purposes, transfer credits will count as credits completed when determining what year (first, second, or third) loan monies are certified for the student.

**Exemption Credits** Exemption credits will not be used in calculating the student's GPA or in calculating SAP.

**Change in Program** When a student changes programs or seeks an additional degree, only the credits attempted and grades earned for those courses which are applicable to the new program will be used to determine SAP.

**Additional Credits** If a student wishes to take credits outside his/her program, they will not receive financial aid for those credits.

**Return to School After a Withdrawal** If a student withdraws from school and wishes to return, they must first complete a re-application to school (available from the Academic Affairs office). If their prior account at South Hills is paid in full, the Admissions department will then send the student a new enrollment agreement given they meet all the Admission requirements for that program. If a balance remains on the account, the balance must be paid in full before the school will consider the re-application.

Once the Financial Aid office receives the student's file containing their re-application, enrollment agreement and an up-to-date transcript, financial aid will be processed for the student if they have applied for aid and have met SAP.

**Completion Rates** Program completion rates may be obtained by contacting the Academic Affairs office or by checking the disclosures section of the school's website. The rates are available to all students.

## Tuition & Fees/Refund Policy . . .

**Interest Charges.** Interest at the rate of one percent per month will be assessed and added to an outstanding balance more than 30 days old.

**Returned (NSF) Checks.** It is understood that if student's (parent's or guardian's) check is returned to the school for insufficient funds, it will be reprocessed once and a service charge equal to the fee charged by the bank will be added. If said check is returned a second time, student (parent or guardian) must pay in cash or with a money order.

**Activities Fee.** All diploma and ASB/AST degree students who are enrolled at least half-time will pay an activities fee of \$45 per term. This fee is to be paid at the same time as tuition payments.

**Transcripts.** Each student may receive two (2) transcripts (official or unofficial) at no charge. The third transcript issued and all those thereafter will be \$3 (three dollars) each.

**Tuition.** Tuition is paid by the term. Term tuition is due within 15 days of receiving an invoice.

There is no carrying charge if payment is made by the fifteenth day after receiving an invoice from the school. If the current unpaid balance is not paid before the last day of the term, a \$25 late charge will be added. After 30 days, one percent of the current unpaid balance will be added each month until the entire amount is paid in full. All costs for a term must be paid prior to the student beginning a subsequent term.

Payments for all charges may be made via one of the following methods:

- Cash
- Check or money order payable to South Hills School
- Credit or debit card (VISA or MasterCard)

The school will not (1) award a diploma or ASB or AST degree, or a certificate of achievement, (2) issue a transcript, or (3) assist in placement until all current tuition and fees and other cost have been paid in full.

The total tuition for the 2013-2014 school year will be \$15,735 (three fulltime terms).

Cost Per Term

Student Status	Credits Carried	Tuition
Fulltime	12.0-17.0	\$5,245
Three-Quarter Time	9.0-11.5	\$3,945
Half-Time	6.0-8.5	\$2,645
Certificate	Varies	\$437 per credit

It is understood that if a student takes more than 17.0 credits or less than 6.0 credits in any term, he/she will pay for those credits at the credit rate of \$437 per credit.

**Associate in Specialized Technology Degree Diagnostic Medical Sonography (DMS)** students will be charged the above rates for terms one through five. For terms six through nine, they will be charged as shown below. Diploma students in the DMS Professional program will pay the rates below for all terms of the program. Diploma students in the DMS Professional Plus program will pay the above rates for terms one and two and the rates below for terms three through six.

Student Status	DMS Tuition
Fulltime	\$6,268
Three-Quarter Time	\$4,712
Half-Time	\$3,157

It is understood that if a student takes more than 17.0 credits or less than 6.0 credits in any term, he/she will pay for those credits at the rate of \$437 per credit in Terms 1-5 and \$522 per credit for Terms 6-9.

**Associate in Specialized Technology Degree Engineering Technology (ET)** students will be charged the rates below for all terms:

Student Status	ET Tuition
Fulltime	\$5,455
Three-Quarter Time	\$4,111
Half-Time	\$2,755

It is understood that if a student takes more than 17.0 credits or less than 6.0 credits in any term, he/she will pay for those credits at the rate of \$455 per credit.

**Refund Policy.** For students withdrawing from school after classes begin, the tuition charges retained for each term will be determined as follows:

Portion of the Term	Percent of Tuition Retained
Prior to the First Calendar Day	0%
First Seven Calendar Days	25%
After the First Seven Calendar Days in the First 25%	45%
After the first 25% in the First 50%	70%
After the First 50%	100%

The withdrawal date is the student's last recorded date of academic attendance, as determined by the school from its attendance records.

The last date of attendance for an official withdrawal shall be one of the following: the date the student began the process, the date the student notifies the school of intent to withdraw, or the last date of attendance recorded in the instructors' attendance records.

Tuition refunds will be made within 45 days of the last date of attendance, save for a student who is approved in writing for a leave of absence (LOA) and does not return at the end of a LOA. The end of the LOA would then be the last date of recorded attendance.

**Title IV Refund Policy.** The Financial Aid Office is required by Federal statute to recalculate Federal financial aid eligibility for students who withdraw, drop out, are dismissed, or take a leave of absence prior to completing 60 percent of a payment period or term. The Federal Title IV financial aid program must be recalculated in these situations.

If a student leaves South Hills prior to completing 60 percent of a payment period or term, the financial aid office recalculates eligibility for Title IV funds. Recalculation is based on the percentage of earned aid using the following Federal Return of Title IV Funds formula: Percentage of payment period or term equals the number of days completed up to the withdrawal date divided by the total days in the payment period or term. (Any break of five days or more is not counted as part of the days in the term.) This percentage is also the percentage of aid earned. Calendar days for each term during the enrollment period are as follows: Fall 2013, 85; Winter 2013-2014, 85; Spring 2014, 86, Summer 2014, 85.

Funds are returned to the appropriate Federal program based on the percentage of unearned aid using the following formula: Aid to be returned equals (100% of the aid that could be disbursed minus the percentage of earned aid) multiplied by the total amount of aid that could have been disbursed during the payment period or term.

If a student earned less aid than was disbursed, the school is required to return a portion of the funds and the student is required to return a portion of the funds. Keep in mind that when Title IV funds are returned, the student borrower may owe a debit balance to the school.

If a student earned more aid than was disbursed to him/her, the school owes the student a post-withdrawal disbursement which must be paid within 180 days of the date the school determines that the student withdrew.

South Hills School must return the amount of Title IV funds for which it is responsible no later than 45 days after the determination date of the student's withdrawal.

Refunds are allocated in the following order:

- Unsubsidized Direct Loans (other than PLUS loans)
- Subsidized Direct Loans
- Direct PLUS Loans
- Federal Pell Grants for which a return of funds is required

**Refunds for Courses Dropped After the Term Has Commenced.** If credits dropped do not change the student status, i.e. full-time, three-quarter time, half-time, or less than half-time, there are no refunds.

If a change of student status does occur, the regular refund policy rates apply in proportion to the length of time that a student is in the original status.

If a student drops to less than half-time, he/she will pay the remainder of the term on a per-credit basis and will be refunded the difference between the original cost and the new cost times the applicable refund percentage.

All students who wish to drop a course or withdraw from school must complete an official drop or withdrawal form. This assures that any refund due is processed automatically and that the change becomes a matter of record.

**Books and Supplies.** Books and supplies are not part of the total tuition cost. South Hills School does not sell books. The school has contracted with MBS Direct to be our provider of textbooks. MBS Direct will contact all South Hills students with information on how to purchase books. Students may choose another vender if they desire.

A student may charge books to his/her account if the student has sufficient financial aid to cover the book charges and if he/she orders

from MBS Direct. However, there will be a \$10 fee for this service in most instances.

## Drug/Alcohol Abuse Prevention Program . . .

South Hills School of Business & Technology has an obligation to do whatever we can to make sure our students are aware of the dangers of drugs and do not use drugs. We not only have an obligation to you, our students, but also an obligation to the employers who hire our graduates. We have made a commitment to help you receive the best education possible for your chosen career. Employers of our graduates trust us to provide the best employees in the field with top-notch skills. We cannot help you with your education or provide employers with good employees, if our students are using drugs or drinking.

In accordance with the Drug-Free Schools and Communities Act amendments of 1989, Public Law 101-226, South Hills School of Business & Technology is hereby declared a drug- and alcohol-free school and workplace.

Students are prohibited from the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance or alcohol anywhere on property belonging to South Hills School of Business & Technology, including grounds, parking areas, anywhere within the building, or while participating in school-related activities. Students who violate this policy will be subject to disciplinary action up to and including expulsion.

As a condition of enrollment, students must abide by the terms of the policy or South Hills School of Business & Technology will take one or more of the following actions within 30 days with respect to any student who violates this policy: reporting the violation to law enforcement officials; taking appropriate disciplinary action against such student, up to and including expulsion; or requiring the student to participate in a substance abuse rehabilitation program approved for such purposes by a federal, state, local health, law enforcement, or other appropriate agency.

In conformance with the law, South Hills School of Business & Technology will make a good faith effort to maintain a drug and alcohol free school and workplace through implementation of the preceding policy. South Hills School of Business & Technology has established and maintains a drug and alcohol free awareness program.

Disciplinary Procedures. Students found to be using drugs or alcohol during school hours will be required to meet with the Drug and Alcohol Abuse Prevention Program Coordinator, the Director and/or the President of the school. The student will be counseled and, if necessary, referred for additional professional counseling. The school reserves the right to expel any student from school for due cause.

Financial Aid Implications. If a student is convicted of a drug offense during a period of enrollment for which the student was receiving Title IV aid (convictions do not count if the offense was not during such a period), he/she will lose Title IV eligibility. A conviction that was reversed, set aside, or removed from the student's record does not count, nor does one received when he/she was a juvenile unless he/she was tried as an adult.

The following illustrates the period of ineligibility for Federal Student aid funds depending on whether the conviction was for sale or possession, and whether the student had previous offenses:

	Possession of Illegal Drugs	Sale of Illegal Drugs
First Offense	1 year from date of conviction	2 years from date of conviction
Second Offense	2 years from date of conviction	Indefinite period
Third Offense	Indefinite period	

The student regains eligibility the date after the period of ineligibility ends or when he/she successfully completes a drug rehabilitation program. It is the student's responsibility to certify to the financial aid

office that he/she has successfully completed the rehabilitation program.

When the student regains eligibility, aid may be awarded for the current payment year.

## South Hills Learning Solutions Center For Professional Development . . .

The South Hills Learning Solutions Centers in Altoona and State College offer a wide range of professional certification and continuing education classes designed for beginners and professionals alike. Custom corporate training classes, seminars and on-site sessions are also available. Publicly offered classes and series include training in these areas:

### NETWORK ENGINEERING

Microsoft Certified System Engineer  
Network Security  
Cisco Networking  
VM WARE

### DESKTOP SOFTWARE APPLICATIONS

Microsoft Office 2007, 2010  
Adobe Graphic Arts (InDesign, Photoshop, Illustrator) CS6  
Web Design (Dreamweaver, Flash, Fireworks)  
AutoCAD 2014  
QuickBooks

### COMPUTER TECHNICIAN/HELP DESK SUPPORT

A+ PC Tech Certification  
Net+ PC Tech Certification  
Security + PC Tech Certification

### PROGRAMMING FOR PROS

Microsoft V.B.Net and C# Programming  
Java Programming  
Database Programming

### SHORT CERTIFICATE SERIES

The Office Professional  
Computer Technician  
Project Management

For more information, call Jeff Stachowski at 814-234-7755 or Peggy Reams at 814-278-1990. Additional information is available on our website at [www.southhills.edu/professional\\_development](http://www.southhills.edu/professional_development)



# Programs

## Administrative Professional . . .

The Administrative Professional program prepares individuals to be proficient office administrators and managers. Students in this program learn the most extensively used software packages, office procedures, and management techniques. Employers have had a keen interest in hiring graduates from this major for many years due to the graduates' ability to adapt in a variety of office settings.

Administrative professionals may coordinate and maintain effective office systems, implement policies and procedures, arrange for travel requirements, assist in research for meetings or reports, make arrangements for conferences and meetings, supervise or hire other employees, create and maintain databases and websites, and keep an office organized and functioning at an optimal level.

Graduates may choose from many different careers such as administrative assistant, administrative professional, computer applications specialist, executive administrative assistant, office assistant, office manager, project manager, and support or software specialist.

If you would like to be part of a very diverse, ever-changing work environment, consider becoming an administrative professional.

**The Administrative Professional program is offered at the Altoona, Lewistown, and State College locations.**

## ADMINISTRATIVE PROFESSIONAL ASB Degree Program 101.5 credits/2244 clock hours

Code	Course	Credits	Clock Hours
<b>First Term</b>			
GE170	Business English I	2.5	60
GE173	Introduction to Business Math	2.0	36
AC120	Introduction to Accounting OR	3.5	60
AC104	Accounting I	(3.5)	(60)
CP114	Computer Fundamentals	3.0	60
PD119	Personal Development	1.0	24
AP101	Keyboarding I and Lab	3.0	60
		15.0	300
<b>Second Term</b>			
CP104	Spreadsheets	3.0	60
GE171	Business English II	3.0	60
AC128	Computerized Accounting	3.0	60
AP102	Keyboarding II	3.0	56
AP103	Keyboarding II Lab	1.0	28
WP202	Word Processing	3.0	60
		16.0	324
<b>Third Term</b>			
GE245	Business English III	2.5	60
AP106	Records Management	1.5	30
AP203	Editing & Proofreading	1.5	30
AP107	Transcription	1.5	30
AC105	Payroll Accounting	3.5	60
WP205	Advanced Word Processing	3.0	60
CP216	Advanced Spreadsheet Applications	1.5	30
		15.0	300
<b>Fourth Term</b>			
GE250	Oral Business Communication	1.0	24

GE248	English Composition for the Office	1.0	30
	Elective	2.0	36
WP203	Desktop Publishing I	3.0	60
CP105	Database	3.0	60
CP206	Computer Presentations	2.0	48
MG200	Principles of Supervision	2.0	36
		14.0	294

### Fifth Term

MG209	Human Resources Management	1.5	36
CP233	Web Site Design	3.0	60
CP214	Software Survey	3.0	60
AP201	Document Processing	3.0	56
AP202	Document Processing Lab	1.0	28
CD204	Job Search Skills	1.0	24
CP210	Advanced Database Applications	1.5	30
		14.0	294

### Optional Elective

MG210	Real Estate Practice	3.0	60
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### Sixth Term

AP301	Integrated Office Simulation	3.0	60
CP257	Microcomputer Systems Management	3.5	60
AP302	The Office Professional	3.0	60
GE172	Human Relations in the Workplace	1.5	36
MG212	Personal Financial Management	1.5	36
WP204	Desktop Publishing II	1.0	24
GE169	Applied Psychology	2.0	36
		15.5	312

### Seventh Term

AP602	Administrative Professional Internship	9.0	378
AP300	Administrative Professional Seminar	1.5	21
CD302	Professional Development	1.5	21
		12.0	420

For more information about our graduation rates, the median debt of students who completed the program, and other important information, please view our website at [www.southhills.edu/disclosures/gainful\\_employment\\_disclosure.php?program=ap](http://www.southhills.edu/disclosures/gainful_employment_disclosure.php?program=ap).

## Business Administration – Accounting . . .

Accounting, bookkeeping and financial skills are needed in every business, non-profit organization, and governmental sector of our economy.

The Business Administration – Accounting program provides a solid foundation in accounting and bookkeeping skills, payroll, taxation, business, and computer skills to prepare you for a successful and rewarding career in business.

The demand for individuals who possess these skills will continue to rise as government regulations become more stringent and businesses strive to remain profitable. Whether our economy is thriving or slowing down, Business Administration – Accounting graduates will continue to be in demand. An ASB degree in accounting will prepare you for many different career paths in entry-level accounting and financial positions with the opportunity for advancement as you gain experience.

If you have high standards of integrity, the ability to work with numbers, and are willing to work hard to achieve your goals, this program may be the first step on your pathway to professional success.

**The Business Administration – Accounting program is offered at the Altoona and State College locations.**

## BUSINESS ADMINISTRATION – ACCOUNTING

### ASB Degree Program

90.0 credits/1950 clock hours

Code	Course	Credits	Clock Hours
<b>First Term</b>			
AC104	Accounting I	3.5	60
GE168	Applied Algebra	3.0	60
CP101	Introduction to Computing	1.5	30
GE170	Business English I	2.5	60
PD119	Personal Development	1.0	24
MG110	Introduction to Business	3.0	60
		14.5	294
<b>Second Term</b>			
LE115	Business Law	2.0	36
AC209	Accounting II	3.5	60
GE171	Business English II	3.0	60
GE162	Business Mathematics	3.0	60
AP105	Keyboarding/Word Essentials	1.5	30
MG103	Management I	3.0	60
		16.0	306
<b>Third Term</b>			
AC300	Accounting III	3.5	60
GE245	Business English III	2.5	60
AC128	Computerized Accounting	3.0	60
AC105	Payroll Accounting	3.5	60
WP202	Word Processing	3.0	60
		15.5	300
<b>Fourth Term</b>			
AC202	Cost/Managerial Accounting	3.0	60
CD204	Job Search Skills	1.0	24
CP104	Spreadsheets	3.0	60
GE244	Business Economics	3.0	60
GE250	Oral Business Communications	1.0	24
AC211	Intermediate Accounting I	3.5	60
MG212	Personal Financial Management	1.5	36
		16.0	324
<b>Fifth Term</b>			
AC206	Auditing	3.0	60
GE172	Human Relations in the Workplace	1.5	36
AC113	Fundamentals of Income Taxes	3.5	60
AC301	Intermediate Accounting II	3.5	60
CP105	Database	3.0	60
CP216	Advanced Spreadsheet Applications	1.5	30
		16.0	306
<b>Sixth Term</b>			
AC602	Business Administration – Accounting Internship	9.0	378
CD302	Professional Development	1.5	21
CD301	Certification Preparation	1.5	21
		12.0	420

For more information about our graduation rates, the median debt of students who completed the program, and other important information, please view our website at [www.southhills.edu/disclosures/gainful-employment-disclosure?program=baa](http://www.southhills.edu/disclosures/gainful-employment-disclosure?program=baa).

## Business Administration – Management & Marketing . . .

Today's manager is formally educated in the separate profession of management. A manager must learn to plan, organize, direct and control in a manner which best combines the resources of the business in an efficient and effective manner.

In many cases one will not gain admittance to an entry-level management position without formal management education. Production experience alone is normally not enough to insure advancement to the ranks of management.

An essential aspect of management is marketing. Marketing encompasses almost every aspect of a business from product or service development, to developing strategies for promoting, pricing,

selling, and distributing that product or service. Even other areas of management rely on the foundations of marketing in developing strategies for success.

The student with a marketing and management degree may find employment in some area pertaining to marketing, or may find a position in some level of management. Management skills are essential when working with a business' human resources in the area of personnel. Management positions may also involve working with purchasing, inventory control, accounting, and the most effective and efficient use of computers. Marketing positions may involve developing marketing plans, creating advertising and public relations materials, and selling. Regardless of the type of product or service a business offers, the same marketing and management skills are a prerequisite for success whether you are managing your own business or you are the manager of a business for someone else.

**The Business Administration – Management & Marketing program is offered at the Altoona, Lewistown, and State College locations.**

## BUSINESS ADMINISTRATION –

### MANAGEMENT & MARKETING

#### ASB Degree Program

99.0 credits/2244 clock hours

Code	Course	Credits	Clock Hours
<b>First Term</b>			
AC104	Accounting I	3.5	60
CP101	Introduction to Computing	1.5	30
PD119	Personal Development	1.0	24
MG110	Introduction to Business	3.0	60
GE168	Applied Algebra	3.0	60
GE170	Business English I	2.5	60
		14.5	294
<b>Second Term</b>			
LE115	Business Law	2.0	36
GE171	Business English II	3.0	60
AC209	Accounting II	3.5	60
GE162	Business Mathematics	3.0	60
AP105	Keyboarding/Word Essentials	1.5	30
MG103	Management I	3.0	60
		16.0	306
<b>Third Term</b>			
GE245	Business English III	2.5	60
MG104	Management II	3.0	60
MK103	Marketing	3.0	60
WP202	Word Processing	3.0	60
CP206	Computer Presentations	2.0	48
MG196	Customer Relations	1.5	36
		15.0	324
<b>Fourth Term</b>			
MK104	Retailing	3.0	60
MK201	Advertising & Public Relations	2.5	60
MG224	Small Business Management	2.5	48
CP233	Web Site Design	3.0	60
CP105	Database	3.0	60
		14.0	288
<b>Optional Electives</b>			
MG207	Real Estate Fundamentals	2.0	36
MK202	Internet Marketing	1.5	36
<b>Fifth Term</b>			
MK213	Market Research & Statistics	2.5	60
MK192	Selling	2.0	48
GE174	Introduction to Business Statistics	2.5	48
CD204	Job Search Skills	1.0	24
	Elective*	1.5	36
AC216	Managerial Accounting with QuickBooks	3.0	60
		12.5	276
<b>*Electives:</b>			
MG210	Real Estate Practice	3.0	60
MG209	Human Resources Management	1.5	36

#### Sixth Term

MG206	Business Plan	3.0	84
GE244	Business Economics	3.0	60
CP104	Spreadsheets	3.0	60
WP203	Desktop Publishing I	3.0	60
GE251	Oral Presentation Skills	1.5	36
GE172	Human Relations in the Workplace	1.5	36
		15.0	336

#### Seventh Term

MG602	Business Administration – Management & Marketing Internship	9.0	378
MG300	Basic Personal Finance	1.5	21
CD302	Professional Development	1.5	21
		12.0	420

For more information about our graduation rates, the median debt of students who completed the program, and other important information, please view our website at [www.southhills.edu/disclosures/gainful\\_employment\\_disclosure.php?protram=bamm](http://www.southhills.edu/disclosures/gainful_employment_disclosure.php?protram=bamm).

## Criminal Justice . . .

The Criminal Justice program is designed to provide students with an understanding of the criminal justice system and the varied sociological, psychological, political and economic factors which play a role in this challenging and rapidly growing field. The curriculum emphasizes the need for students to be exposed to the most significant areas of study in the criminal justice system—law enforcement, corrections, probation and parole, juvenile justice, criminal law and procedures, ethics, homeland security and criminology. In each of these areas, course offerings stress both theoretical concepts and practical applications.

As a complement to the classroom experiences, the program requires students to engage in experiential learning through field visits, certification trainings, and internships. These allow the student to observe, prepare for, and/or participate in the day-to-day operations of specific agencies. Upon completion of the program, graduates will also have developed strong critical thinking and writing skills.

Graduates will be prepared for and may pursue a variety of careers in criminal justice which include the fields of law enforcement, corrections, juvenile justice, investigations, and private security. For those who may be interested in continuing their education, this program also provides a solid foundation for further studies in criminal justice.

***The Criminal Justice program is offered at the Altoona, Lewistown, and State College locations.***

### CRIMINAL JUSTICE ASB Degree Program 97.0 credits/2034 clock hours

Code	Course	Credits	Clock Hours
<b>First Term</b>			
GE170	Business English I	2.5	60
AP105	Keyboarding/Word Essentials	1.5	30
CP101	Introduction to Computing	1.5	30
PD119	Personal Development	1.0	24
GE169	Applied Psychology	2.0	36
CJ116	Introduction to Criminal Justice	3.5	60
CJ102	Introduction to Law Enforcement	2.0	36
		14.0	276
<b>Second Term</b>			
GE171	Business English II	3.0	60
GE154	Sociology for Criminal Justice	3.0	48
CP212	Microsoft Office	3.0	60
CJ117	Introduction to Corrections	3.5	60
LE117	American Constitutional Law	3.0	60
		15.5	288

#### Third Term

CJ217	Criminology	3.5	60
CJ105	Introduction to Criminal Law	3.0	60
GE176	Introduction to Statistics for Criminal Justice	2.0	36
CJ107	Rehabilitation of the Offender	2.0	36
LE110	Introduction to the Law of Torts	3.5	60
		14.0	252

#### Fourth Term

CJ222	Criminal Procedures	3.5	60
CJ214	Juvenile Delinquency	3.0	60
	Elective	3.0	60
CJ109	Forensic Science	1.5	30
GE203	Psychological Foundations of Criminal Justice	2.0	36
		13.0	246
<b>Elective</b>			
CJ211	Drugs, Crime, and Criminal Justice OR Other Elective of Student's Choosing	3.0	60
		3.0	60

#### Fifth Term

CJ205	Criminal Evidence	2.0	36
LE107	Family Law for Criminal Justice	1.0	24
CJ221	Criminal Investigations	3.5	60
GE157	Writing for Criminal Justice	3.5	60
CJ115	An Introduction to the PA Criminal Justice Handbook	2.0	36
CJ114	Introduction to Victimology	3.0	60
		15.0	276

#### Sixth Term

GE172	Human Relations in the Workplace	1.5	36
GE250	Oral Business Communications	1.0	24
CD204	Job Search Skills	1.0	24
CJ203	Physical Security & Safety	1.0	24
CJ300	Criminal Justice Capstone Project	3.0	60
CJ206	Terrorism & Homeland Security	2.0	36
CJ216	Emergency Procedures	2.0	36
CJ106	Human Rights Issues in Criminal Justice	2.0	36
		13.5	276

#### Seventh Term

CJ301	Critical Issues for the Criminal Justice Professional	1.5	21
CD302	Professional Development	1.5	21
CJ602	Criminal Justice Internship	9.0	378
		12.0	420

For more information about our graduation rates, the median debt of students who completed the program, and other important information, please view our website at [www.southhills.edu/disclosures/gainful\\_employment\\_disclosure.php?program=cj](http://www.southhills.edu/disclosures/gainful_employment_disclosure.php?program=cj).

## Diagnostic Medical Sonography, Diagnostic Medical Sonography Professional, and Diagnostic Medical Sonography Professional Plus . . .

Diagnostic ultrasound is a noninvasive diagnostic imaging modality that has grown tremendously since its inception in the 1970s. It is now utilized extensively for imaging and diagnosis in nearly every part of the human body.

Ultrasound is used widely during pregnancy for the evaluation of the fetus, the uterus, and the placenta. It is also used in evaluating organs of the abdomen, such as the gallbladder, liver, pancreas, kidneys, and abdominal vessels. Other areas of specialization are Ultrasound imaging of the heart, known as Echocardiography, and of the blood vessels of the head, neck, and extremities, known as Noninvasive Vascular Sonography. Each of these areas of interest is governed by at least one separate registry examination (American Registry for Diagnostic Medical Sonography, ARDMS®).

The South Hills Diagnostic Medical Sonography program prepares the student for a rewarding career in a high-tech, allied-health field. The

Sonographer performs diagnostic testing on patients in a hospital or other health care facility. The Sonographer interacts with both patients and physicians on a daily basis, and is a highly respected member of the diagnostic imaging team.

Ultrasound professionals may be employed in several hospital departments, such as Radiology, Cardiology, Maternal-Fetal Medicine, or Vascular Surgery. They are sometimes employed in private practice environments, such as imaging centers and physicians' offices. In each of these settings, the Sonographer works through each case carefully and methodically, treating the patient with care and compassion, while obtaining diagnostic images of the highest technical quality. The Sonographer then reviews the completed images with the interpreting physician, who may be a radiologist, cardiologist, neurologist, or vascular surgeon. A small to mid-sized hospital may employ from three to ten or more ultrasound professionals within various departments.

### Three Separate Pathways Available

South Hills offers three separate tracks for the Sonography student to prepare for specialized careers in the field of diagnostic ultrasound. Each of these tracks represents a dedicated emphasis in the particular area of specialization, which is built upon a more broad Sonography background.

**General Sonography** The General Sonography track prepares the student for specialization in obstetrics/gynecology, abdominal, and small parts Sonography. This program prepares the student for the RDMS® (Registered Diagnostic Medical Sonographer) credential. It also provides the student with an introduction to Vascular Sonography.

**Echocardiography** The Echocardiography track (Cardiac Sonography) prepares the student for specialization in Echocardiography (ultrasound of the adult heart). This program prepares the student for the RDCS® (Registered Diagnostic Cardiac Sonographer) credential. It also provides the student with an introduction to Vascular Sonography and Abdominal Sonography.

**Vascular** The Vascular track prepares the student for specialization in the field of Vascular Sonography (ultrasound of the arteries in the heart, neck, abdomen and extremities). This program prepares the student for the RVT® (Registered Vascular Technologist) credential. Available slots in each of the three tracks are limited, and will be awarded to applicants who best meet the entrance criteria.

Please refer to the [DMS Handbook](#) for further details.

### Programmatic Prerequisite

The Sonography program curriculums are designed to follow a specific progression of classes to be completed within the designated time frame. The student must maintain full time status to be enrolled in any of the Diagnostic Medical Sonography programs. Certain exceptions may apply for students who have prior degree or collegiate experience with transfer credits; however, this must be approved by the DMS Program Director.

Any deviation from the listed curriculum must be requested in writing and approved by the DMS Faculty committee. Each case is reviewed on an individual basis.

Entrance into each term is granted only after successful completion of the coursework in all prior terms. Successful completion constitutes a "C" or better grade.

The following would result in academic dismissal from any DMS program:

- (1) Less than a "C" in any course in the curriculum.
- (2) Students that do not complete term prerequisites.

A student who is dismissed or who withdraws from the program may reapply after successfully completion of all required courses up to that point in the program. The student must again go through the application process; however, he/she is not guaranteed a seat in any program. The student may be required to demonstrate academic and/or Sonographic competency as a condition of reacceptance into the program.

The Diagnostic Medical Sonography AST degree program, the Diagnostic Medical Sonography Professional, and the Diagnostic Medical Sonography Professional Plus programs are all accredited by the Commission for Accreditation of Allied Health Education Programs (CAAHEP). Graduates are eligible to sit for the ARDMS certification examinations immediately upon completion of the program. Students are eligible to sit for the ARDMS Sonography Principles and Instrumentation examination during the last term of the program.

**All diagnostic medical sonography programs are offered at the State College location.**

## DIAGNOSTIC MEDICAL SONOGRAPHY AST Degree Program 127.0 credits/2898 clock hours

Code	Course	Credits	Clock Hours
<b>First Term</b>			
GE168	Applied Algebra	3.0	60
GE170	Business English I	2.5	60
MD114	Medical Terminology I	2.0	36
GE164	Anatomy & Physiology I	3.5	58
GE165	Anatomy & Physiology I Lab	0.5	14
PD119	Personal Development	1.0	24
		<u>12.5</u>	<u>252</u>
<b>Second Term</b>			
GE171	Business English II	3.0	60
CP101	Introduction to Computing	1.5	30
DS230	Patient Care	2.5	60
GE166	Anatomy & Physiology II	3.5	58
GE167	Anatomy & Physiology II Lab	0.5	14
MD105	Medical Terminology II	2.0	36
GE240	Applied Algebra II	3.0	60
		<u>16.0</u>	<u>318</u>
<b>Third Term</b>			
GE250	Oral Business Communications	1.0	24
GE247	Business Writing	2.5	60
CP212	Microsoft Office	3.0	60
GE246	Statistical Methods & Applications	3.0	60
HI100	Pathophysiology	4.0	72
		<u>13.5</u>	<u>276</u>
<b>Fourth Term</b>			
MG109	Management and Supervision	3.5	60
GE244	Business Economics	3.0	60
DS237	Introduction to Medical Imaging	3.5	60
GE253	Applied Psychology in Health Care	2.0	36
GE172	Human Relations in the Workplace	1.5	36
		<u>13.5</u>	<u>252</u>
<b>Fifth Term</b>			
DS111	Principles of Sonography	3.0	60
GE242	Applied Physics	3.0	58
GE243	Applied Physics Lab	0.5	14
DS309	Law & Ethics in Medical Imaging	2.5	36
DS265	Embryology for the Sonographer	3.0	60
DS101	First Aid & CPR-AHA	0.5	12
MD200	Pharmacology	2.0	36
		<u>14.5</u>	<u>276</u>
<b>Sixth Term</b>			
DS208	Ultrasound Physics & Instrumentation I	2.5	48
DS219	Cross Sectional & Three-Dimensional Anatomy	2.5	36
gDS224	Gynecologic Ultrasound OR	3.0	60
cDS243	Cardiac Pathophysiology I OR	(3.0)	(60)
vDS252	Vascular Technology I	(3.0)	(60)
gDS218	Obstetric Ultrasound OR	3.0	60
cDS244	Echocardiography I OR	(3.0)	(60)
vDS254	Vascular Pathophysiology	(3.0)	(60)
DS223	Abdominal Ultrasound I	3.0	60
gDS205	Clinical Obstetrics OR	2.5	36
cvDS211	Principles of Cardiovascular Technology	(2.5)	(36)
		<u>16.5</u>	<u>300</u>
<b>Seventh Term</b>			
DS266	Ultrasound Physics & Instrumentation II	2.5	48
cgDS235	Principles of Vascular Ultrasound OR	4.0	72

vDS308	Vascular Technology II	(4.0)	(72)
gDS264	Obstetric and Gynecologic Ultrasound II OR	3.0	60
vDS258	Vascular Ultrasound Special Topics OR	(3.0)	(60)
cDS259	Echocardiography Special Topics	(3.0)	(60)
cDS247	Echocardiography II OR	3.0	60
gvDS210	Ultrasound of the Thyroid, Breast, & Superficial Structures	(3.0)	(60)
gvDS261	Abdominal Ultrasound II OR	3.0	60
cDS262	Cardiac Pathophysiology II	(3.0)	(60)
		15.5	300

#### Eighth Term

DS601	Clinical Internship I	10.0	420
CD204	Job Search Skills	1.0	24
DS225	Professional Development I	2.0	30
		13.0	474

#### Ninth Term

DS602	Clinical Internship II	10.0	420
DS226	Professional Development II	2.0	30
		12.0	450

g = general  
c = cardiac  
v = vascular

For more information about our graduation rates, the median debt of students who completed the program, and other important information, please view our website at [www.southhills.edu/disclosures/gainful\\_employment\\_disclosure.php?program=dms](http://www.southhills.edu/disclosures/gainful_employment_disclosure.php?program=dms).

### DIAGNOSTIC MEDICAL SONOGRAPHY PROFESSIONAL Diploma Program 69.5 credits/1764 clock hours

Code	Course	Credits	Clock Hours
<b>First Term</b>			
DS101	First Aid and CPR-AHA	0.5	12
DS265	Embryology for the Sonographer	3.0	60
DS111	Principles of Sonography	3.0	60
DS309	Law & Ethics in Medical Imaging	2.5	36
MD200	Pharmacology	2.0	36
GE172	Human Relations in the Workplace	1.5	36
		12.5	240
<b>Second Term</b>			
DS208	Ultrasound Physics & Instrumentation I	2.5	48
DS219	Cross Sectional & Three-Dimensional Anatomy	2.5	36
gDS224	Gynecologic Ultrasound OR	3.0	60
cDS243	Cardiac Pathophysiology I OR	(3.0)	(60)
vDS252	Vascular Technology I	(3.0)	(60)
gDS218	Obstetric Ultrasound OR	3.0	60
cDS244	Echocardiography I OR	(3.0)	(60)
vDS254	Vascular Pathophysiology	(3.0)	(60)
DS233	Abdominal Ultrasound I	3.0	60
gDS205	Clinical Obstetrics OR	2.5	36
cvDS211	Principles of Cardiovascular Technology	(2.5)	(36)
		16.5	300
<b>Third Term</b>			
DS266	Ultrasound Physics & Instrumentation II	2.5	48
cgDS235	Principles of Vascular Sonography OR	4.0	72
vDS308	Vascular Technology II	(4.0)	(72)
gDS264	Obstetric and Gynecologic Ultrasound II OR	3.0	60
vDS258	Vascular Ultrasound Special Topics OR	(3.0)	(60)
cDS259	Echocardiography Special Topics	(3.0)	(60)
cDS247	Echocardiography II OR	3.0	60
gvDS210	Ultrasound of the Thyroid, Breast, & Superficial Structures	(3.0)	(60)
gvDS261	Abdominal Ultrasound II OR	3.0	60
cDS262	Cardiac Pathophysiology II	(3.0)	(60)
		15.5	300
<b>Third Term</b>			
DS601	Clinical Internship I	10.0	420
CD204	Job Search Skills	1.0	24
DS225	Professional Development I	2.0	30
		13.0	474

<b>Fourth Term</b>			
DS602	Clinical Internship II	10.0	420
DS226	Professional Development II	2.0	30
		12.0	450

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For more information about our graduation rates, the median debt of students who completed the program, and other important information, please view our website at [www.southhills.edu/disclosures/gainful\\_employment\\_disclosure.php?program=dmp](http://www.southhills.edu/disclosures/gainful_employment_disclosure.php?program=dmp).

### DIAGNOSTIC MEDICAL SONOGRAPHY PROFESSIONAL PLUS Diploma Program 89.5 credits/2124 clock hours

Code	Course	Credits	Clock Hours
<b>First Term</b>			
DS111	Principles of Sonography	3.0	60
MG109	Management and Supervision	3.5	60
GE164	Anatomy & Physiology I	3.5	58
GE165	Anatomy & Physiology I Lab	0.5	14
DS237	Intro to Medical Imaging	3.5	60
MD114	Medical Terminology I	2.0	36
		16.0	288
<b>Second Term</b>			
MD200	Pharmacology	2.0	36
DS309	Law & Ethics in Medical Imaging	2.5	36
DS265	Embryology for Sonography	3.0	60
GE166	Anatomy & Physiology II	3.5	58
GE167	Anatomy & Physiology II Lab	0.5	14
MD105	Medical Terminology II	2.0	36
DS101	First Aid & CPR-AHA	0.5	12
DS230	Patient Care	2.5	60
		16.5	312
<b>Third Term</b>			
DS208	Ultrasound Physics & Instrumentation I	2.5	48
DS219	Cross Sectional & Three-Dimensional Anatomy	2.5	36
gDS224	Gynecologic Ultrasound OR	3.0	60
cDS243	Cardiac Pathophysiology I OR	(3.0)	(60)
vDS252	Vascular Technology I	(3.0)	(60)
gDS218	Obstetric Ultrasound OR	3.0	60
cDS244	Echocardiography I OR	(3.0)	(60)
vDS254	Vascular Pathophysiology	(3.0)	(60)
DS223	Abdominal Ultrasound I	3.0	60
gDS205	Clinical Obstetrics OR	2.5	36
cvDS211	Principles of Cardiovascular Technology	(2.5)	(36)
		16.5	300
<b>Fourth Term</b>			
DS266	Ultrasound Physics & Instrumentation II	2.5	48
cgDS235	Principles of Vascular Sonography OR	4.0	72
vDS308	Vascular Technology II	(4.0)	(72)
gDS264	Obstetric and Gynecologic Ultrasound II OR	3.0	60
vDS258	Vascular Ultrasound Special Topics OR	(3.0)	(60)
cDS259	Echocardiography Special Topics	(3.0)	(60)
cDS247	Echocardiography II OR	3.0	60
gvDS210	Ultrasound of the Thyroid, Breast & Superficial Structures	(3.0)	(60)
gvDS261	Abdominal Ultrasound II OR	3.0	60
cDS262	Cardiac Pathophysiology II	(3.0)	(60)
		15.5	300
<b>Fifth Term</b>			
DS601	Clinical Internship I	10.0	420
CD204	Job Search Skills	1.0	24
DS225	Professional Development I	2.0	30
		13.0	474
<b>Sixth Term</b>			
DS602	Clinical Internship II	10.0	420
DS226	Professional Development II	2.0	30
		12.0	450

g = general  
c = cardiac  
v = vascular

For more information about our graduation rates, the median debt of students who completed the program, and other important information, please view our website at [www.southhills.edu/disclosures/gainful-employment-disclosure.php?program=dpp](http://www.southhills.edu/disclosures/gainful-employment-disclosure.php?program=dpp).

## Engineering Technology . . .

The Engineering Technology program was designed at the request of area companies that see a need for employees who have the technical skills required in the mechanical, civil, and architectural environments.

The program prepares students in the areas of math and science, computer-aided design (CAD), quality control, and problem solving. Students are introduced to topics such as surveying, building codes, and CNC programming.

Graduates are hired into entry-level technician positions, but this educational background makes them excellent candidates for positions of higher skills, responsibility, and pay.

At the end of the program, students work in small groups on a capstone project. This project brings together the skills and knowledge acquired in an area of interest—mechanical, civil or architectural fields. In the last term, the students serve an internship in the workplace, to further practice the new knowledge and skills, in either the mechanical, civil, or architectural fields.

Job titles include, but are not limited to: engineering technician, CAD technician, quality assurance technician, product development technician, and production/process technician.

***The Engineering Technology program is offered at the State College location.***

### ENGINEERING TECHNOLOGY AST Degree Program 94.0 credits/2142 clock hours

Code	Course	Credits	Clock Hours
<b>First Term</b>			
GE168	Applied Algebra	3.0	60
CP101	Introduction to Computing	1.5	30
AP105	Keyboarding/Word Essentials	1.5	30
GE170	Business English I	2.5	60
IM105	Technical Drawing	3.0	60
PD119	Personal Development	1.0	24
		12.5	264
<b>Second Term</b>			
GE171	Business English II	3.0	60
GE240	Applied Algebra II	3.0	60
IM116	Introduction to CAD	3.0	60
IM208	Materials Science	3.5	60
CP212	Microsoft Office	3.0	60
		15.5	300
<b>Third Term</b>			
CE110	Building Codes	2.0	36
CP104	Spreadsheets	3.0	60
IM225	Mechanical CAD	3.0	60
GE242	Applied Physics	3.0	58
GE243	Applied Physics Lab	0.5	14
IM117	Introduction to Geographic Information Systems	2.0	36
GE241	Applied Geometry & Trigonometry	3.0	60
		16.5	324
<b>Fourth Term</b>			
IM230	Architectural CAD	3.5	72
IM252	Machining Processes	2.5	48
IM219	Machining Processes Lab	0.5	24

GE252	Technical Writing	1.5	36
GE250	Oral Business Communications	1.0	24
CE204	Civil CAD	3.5	72
		12.5	276

#### Fifth Term

IM251	CNC Programming	2.0	48
IM229	CNC Programming Lab	0.5	24
CE221	Civil Design	3.0	60
CD204	Job Search Skills	1.0	24
IM246	Solid Modeling CAD	3.5	72
IM237	Architectural CAD II	3.0	60
		13.0	288

#### Sixth Term

IM300	Engineering Technology Project	3.0	84
GE172	Human Relations for the Workplace	1.5	36
GE246	Statistical Methods and Applications	3.0	60
IM250	Mechanical Design	3.0	60
CP216	Advanced Spreadsheet Applications	1.5	30
		12.0	270

#### Seventh Term

IM602	Engineering Technology Internship	9.0	378
GE301	Engineering Economics	1.5	21
CD302	Professional Development	1.5	21
		12.0	420

For more information about our graduation rates, the median debt of students who completed the program, and other important information, please view our website at [www.southhills.edu/disclosures/gainful-employment-disclosure.php?program=et](http://www.southhills.edu/disclosures/gainful-employment-disclosure.php?program=et).

## Graphic Arts . . .

Advertising campaigns, magazines, brochures, catalogs, websites, compact disc covers, corporate branding—all are developed and composed of images, design, and words that work in conjunction to sell products or services or to convey ideas to the end customer or viewer. These are the fundamental concepts of graphic arts on which some of today's most dynamic fields—advertising, publishing, and visual communications—are based.

The student interested in the Graphic Arts program is one that wants to combine his/her creative and artistic talents with the latest computer technology for a rewarding career. The Graphic Arts program teaches students to become well-informed, resourceful, thoughtful, and talented designers who are able to grow and be challenged with an ever-changing visual profession. Developing the creative process, this carefully sequenced curriculum emphasizes fundamental traditions of design through concept development, color, composition, image making, typography, and verbal and written communication. Digital technology is regularly updated with industry standard hardware and software and is a vital component of Graphic Arts and many other departments.

Students may choose from courses in design and advertising art, and are trained in creative problem-solving and the ability to offer solutions that are effective in visually communicating the end product, company, or individual. Theory and practice are combined with an emphasis on research, communication skills, and the developmental process, while specific projects involve a variety of design applications, from two-dimensional and three-dimensional to digital.

Graduates of the Graphic Arts program may work as graphic designers or artists, Web designers, illustrators, multimedia developers, layout or production artists, or work as a communication artist.

***The Graphic Arts program is offered at the State College location.***

## GRAPHIC ARTS

### AST Degree

102.5 credits/2364 clock hours

Code	Course	Credits	Clock Hours
<b>First Term</b>			
GA101	Fundamentals of Design	3.0	60
GA102	Electronic Design I (Quark)	3.0	60
GA103	Fundamentals of Drawing	2.0	60
GA112	Color Theory	1.5	36
CP101	Introduction to Computing	1.5	30
GE170	Business English I	2.5	60
PD119	Personal Development	1.0	24
		14.5	330
<b>Second Term</b>			
GA105	Typography	3.0	60
GA106	Analysis of Form & Space	2.0	60
GA107	Electronic Design II (InDesign)	3.0	60
GA108	Introduction to Computer Graphics (Photoshop)	3.0	60
GE171	Business English II	3.0	60
AP105	Keyboarding/Word Essentials	1.5	30
		15.5	330
<b>Third Term</b>			
GA109	Graphic Design Studio I	2.5	60
GA110	Collateral Design	3.0	60
GA206	Computer Graphics – Illustrator	3.0	60
GA111	Media and Design Study	3.0	60
GE247	Business Writing	2.5	60
GE250	Oral Business Communications	1.0	24
		15.0	324
<b>Fourth Term</b>			
GE254	Art History for the Graphic Designer	3.0	60
GA207	Advanced Computer Graphics	3.0	60
GA203	Typography as Design	3.0	60
GA201	Advertising Design	3.0	60
CP233	Web Site Design	3.0	60
		15.0	300
<b>Fifth Term</b>			
GA213	Typography – Expressive & Experimental	2.5	60
GA202	Concept Development	1.5	36
CP263	Web Site Design II	3.5	60
GA208	Digital Pre-Press	3.0	60
GA209	Publication Design	2.5	60
GE255	Geometry for Design	1.5	24
GE172	Human Relations in the Workplace	1.5	36
		16.0	336
<b>Sixth Term</b>			
CP243	Advanced Web Site Design	3.0	60
GA210	Packaging Design	2.5	60
GA211	Graphic Design Studio II	2.5	60
GA212	Print Portfolio	2.5	60
CD204	Job Search Skills	1.0	24
	Elective	3.0	60
		14.5	324
<b>Electives</b>			
GA300	Digital Photography	3.0	60
GA301	Video Production and Editing	3.0	60
GA302	Graphic Symbolism – Corporate	3.0	60
<b>Seventh Term</b>			
GA602	Graphic Arts Internship	9.0	378
CD302	Professional Development	1.5	21
GA305	Freelance Business Development	1.5	21
		12.0	420

For more information about our graduation rates, the median debt of students who completed the program, and other important information, please view our website at [www.southhills.edu/disclosures/gainful\\_employment\\_disclosure.php?program=ga](http://www.southhills.edu/disclosures/gainful_employment_disclosure.php?program=ga).

## Health Information Technology . . .

With the increased number of health care services available, the health information technology profession has become one of the fastest growing fields.

Health information technicians perform such functions as: organizing, analyzing, and evaluating health records according to established standards; compiling statistics; coding medical records for reimbursement; maintaining and using health indexes and registers for continuing education, research, and health care planning; inputting and retrieving computerized health data; and controlling the usage and release of health information.

Employers are seeking health information technicians to manage the vast amount of health information that must be maintained. Positions are available in hospitals, private care facilities, insurance companies, doctors' offices, nursing homes, health care organizations, government agencies, and professional review organizations.

Successful health information technicians will require excellent organizational and decision making skills to evaluate and maintain health records. Communication interfacing with medical and hospital staff, third-party payors, and regulatory and licensing agencies. Computer skills are also very important since the profession is experiencing a transition from paper records to computerized records.

The opportunities for the health information technician are endless.

***The Health Information Technology program is offered at the Altoona and State College locations.***

## HEALTH INFORMATION TECHNOLOGY

### AST Degree Program

90.5 credits/2013 clock hours

Code	Course	Credits	Clock Hours
<b>First Term</b>			
GE164	Anatomy & Physiology I	3.5	58
GE165	Anatomy & Physiology I Lab	0.5	14
CP101	Introduction to Computing	1.5	30
GE177	Mathematics for Health Care Professionals	3.0	60
GE170	Business English I	2.5	60
MD114	Medical Terminology I	2.0	36
PD119	Personal Development	1.0	24
GE253	Applied Psychology in Health Care	2.0	36
		16.0	318
<b>Second Term</b>			
GE166	Anatomy & Physiology II	3.5	58
GE167	Anatomy & Physiology II Lab	0.5	14
GE171	Business English II	3.0	60
HI202	Introduction to the Health Care Field	3.5	60
MD105	Medical Terminology II	2.0	36
CP104	Spreadsheets	3.0	60
		15.5	288
<b>Third Term</b>			
HI122	Health Data Content and Reimbursement	3.0	60
HI213	ICD Coding I	3.0	60
HI100	Pathophysiology	4.0	72
GE250	Oral Business Communications	1.0	24
GE245	Business English III	2.5	60
CP105	Database	3.0	60
		16.5	336
<b>Fourth Term</b>			
GE249	Health Care Statistics	1.0	24
HI221	Healthcare Quality Improvement	3.5	60
HI214	ICD Coding II	3.0	60
HI212	CPT-4	2.5	48
MD200	Pharmacology	2.0	36
CD204	Job Search Skills	1.0	24
CP210	Advanced Database Applications	1.5	30

HI200	Principles of Supervision	<u>2.0</u>	<u>36</u>
		16.5	318
<b>Fifth Term</b>			
GE172	Human Relations in the Workplace	1.5	36
HI218	Electronic Health Records	2.0	36
HI208	Health Records in Other Settings	1.5	30
HI205	Medical Legal Aspects	2.0	36
MD207	Medical Insurance Forms	3.0	60
HI300	Advanced Coding	1.0	30
HI206	Healthcare Budgeting	1.0	24
HI601	Professional Practice Experience I	<u>2.0</u>	<u>84</u>
		14.0	336
<b>Sixth Term</b>			
HI400	Health Information Seminar	3.5	60
HI605	Professional Practice Experience II	<u>8.5</u>	<u>357</u>
		12.0	417

*Note: When students are scheduled for Directed Practice, they may be required by the internship site to have a physical examination and evidence of updated immunizations. They may also be required to have a criminal background check or to submit to random drug screenings.*

*The Health Information Technology program is accredited by the Commission on Accreditation for Health Informatics and Information Management (CAHIIM) in cooperation with the sponsoring professional organization, the Health Information Management Association (AHIMA). Graduates are eligible to apply to sit for the national qualifying examination for certification as a Registered Health Information Technician (RHIT).*

Students enrolled in the Health Information Technology program must earn a "C-" or better in ALL courses in order to graduate. This requirement also applies to the student's eligibility to sit for the Registered Health Information Technology (RHIT) examination. Students earning less than a "C-" would have to repeat the course or courses before they earn their associate degree in this field or take the RHIT examination.

For more information about our graduation rates, the median debt of students who complete the program, and other important information, please view our website at [www.sotuhills.edu/disclosures/gainful\\_employment\\_disclosure.php?prog=hit](http://www.sotuhills.edu/disclosures/gainful_employment_disclosure.php?prog=hit).

## Information Technology . . .

The demand for employees with technical expertise continues to increase as both large and small businesses rely more and more on computerized information systems. As an Information Technology (IT) major, you will receive training in such areas as: programming, hardware, computer/network security, telecommunications, database programming, networking, web development, and project management.

Included at the end of your training in the IT program is a 10- to 12-week internship. During the internship, you will work with a business or organization, as you apply and deepen your computer systems knowledge.

As an Information Technology AST degree graduate, your hands-on training will qualify you for a job as a network administrator, IT security analyst, applications developer or programmer, webmaster, e-commerce specialist, data communications analyst, database administrator, technical writer, hardware/software support technician, computer trainer, or technical sales representative.

Students in the IT curriculum may choose to take internationally recognized certification exams by Microsoft, CompTIA, EC-Council, and CIW. The South Hills Information Technology coursework contains content found on many of these exams. Some certifications that may be obtained include MCTS, MCSE, A+, Network+, CIW-A, and Linux+.

Are you a problem solver with strong analytical and math skills with a desire to understand how computer systems work? If you are, consider pursuing a challenging career in the world of computers.

**The Information Technology program is offered at the Altoona, Lewistown, and State College locations.**

## INFORMATION TECHNOLOGY AST Degree Program 101.0 credits/2160 clock hours

Code	Course	Credits	Clock Hours
<b>First Term</b>			
CP122	Introduction to Operating Systems	1.5	36
CP121	Introduction to Programming & Logic	3.5	60
CP218	Networking Essentials	3.0	60
GE170	Business English I	2.5	60
PD119	Personal Development	1.0	24
CP113	Business Applications	<u>3.0</u>	<u>60</u>
		14.5	300
<b>Second Term</b>			
GE168	Applied Algebra	3.0	60
CP119	Hardware	3.0	60
GE171	Business English II	3.0	60
CP105	Database	3.0	60
	Technical Elective #1	<u>3.5</u>	<u>60</u>
		15.5	300
<b>Technical Elective #1</b>			
CP306	TCI/IP OR	3.5	60
CP259	C# Programming	3.5	60
<b>Third Term</b>			
CP233	Web Site Design	3.0	60
GE162	Business Mathematics	3.0	60
AC119	Fundamentals of Accounting with QuickBooks	3.0	60
CP162	UNIX/Linux Essentials	3.5	60
	Technical Elective #2	<u>3.5</u>	<u>60</u>
		16.0	300
<b>Technical Elective #2</b>			
CP252	Microsoft Server Operating Systems OR	3.5	60
CP242	.Net Framework	3.5	60
<b>Fourth Term</b>			
CP260	Database Programming	3.5	60
CP269	Technical Presentations	1.0	24
GE252	Technical Writing	1.5	36
CP253	PHP	3.5	60
MG110	Introduction to Business	3.0	60
	Technical Elective #3	<u>3.5</u>	<u>60</u>
		16.0	300
<b>Technical Elective #3</b>			
CP239	Server Administration OR	3.5	60
CP251	JavaScript	3.5	60
<b>Fifth Term</b>			
GE246	Statistical Methods and Applications	3.0	60
CD204	Job Search Skills	1.0	24
CP265	Project Management	3.5	60
CP268	Content Management Systems	3.0	60
	Technical Elective #4	<u>3.5</u>	<u>60</u>
		14.0	264
<b>Technical Elective #4</b>			
CP309	Cisco Networking OR	3.5	60
CP311	JAVA Programming	3.5	60
<b>Sixth Term</b>			
CP312	Information Technology Capstone Project	5.0	120
	Elective	3.0	60
GE172	Human Relations in the Workplace	1.5	36
	Technical Elective #5	<u>3.5</u>	<u>60</u>
		13.0	276



Technical Elective #5			
CP310	Ethical Hacking and Defense OR	3.5	60
CP249	Android Application Development	3.5	60
Seventh Term			
CP604	Information Technology Internship	9.0	378
CD302	Professional Development	1.5	21
CD301	Certification Preparation	1.5	21
		12.0	420

For more information about our graduation rates, the median debt of students who completed the program, and other important information, view our website at [www.southhills.edu/disclosures/gainful\\_employment\\_disclosure.php?program=it](http://www.southhills.edu/disclosures/gainful_employment_disclosure.php?program=it).

## Medical Assistant . . .

Changes in health care industry include the increased demand for more multi-skilled health care workers. The medical assistant is educated to perform some specific administrative and clinical procedures. The medical assistant also learns general guidelines such as universal precautions and effective communication skills that can be adapted to a variety of health care settings.

Administrative duties of a medical assistant include appointment scheduling, patient registration, records management, medical transcription, telephone screening, correspondence, and billing. Clinical duties may include infection control, patient interviews, first aid and CPR, patient preparation and assisting the physician, specimen collection and processing, selected diagnostic tests completion, and medication preparation and administration as permitted by state law.

The responsibilities of the medical assistant will vary depending on where he/she is employed. The versatility of the medical assistant who is prepared to perform administrative and clinical procedures will be an asset in a number of different settings.

Employment opportunities include positions in the office as well as in clinical areas of the medical facility. The medical assistant graduate can further his/her education in a specialized area and prepare for certification or focus on a particular skill and become more proficient.

The Medical Assistant Program at the State College campus is accredited by the Accrediting Bureau of Health Education Schools (ABHES).

***The following Medical Assistant program is offered at the State College and Altoona locations.***

### MEDICAL ASSISTANT ASB Degree Program

**100.0 credits/2214 clock hours/84 weeks**

Code	Course	Credits	Clock Hours
First Term			
GE164	Anatomy & Physiology I	3.5	58
GE165	Anatomy & Physiology I Lab	0.5	14
CP101	Introduction to Computing	1.5	30
AP105	Keyboarding/Word Essentials	1.5	30
GE177	Mathematics for Healthcare Professionals	3.0	60
GE170	Business English I	2.5	60
PD119	Personal Development	1.0	24
MD114	Medical Terminology I	2.0	36
		15.5	312
Second Term			
GE166	Anatomy & Physiology II	3.5	58
GE167	Anatomy & Physiology II Lab	0.5	14
MD105	Medical Terminology II	2.0	36
WP202	Word Processing	3.0	60
HI202	Introduction to the Healthcare Field	3.5	60
GE171	Business English II	3.0	60
		15.5	288

Third Term			
GE245	Business English III	2.5	60
MA102	Clinical Skills I	3.0	60
HI213	ICD Coding I	3.0	60
MD202	Fundamentals of Medical Transcription	1.5	30
GE250	Oral Business Communications	1.0	24
HI100	Pathophysiology	4.0	72
		15.0	306

Fourth Term			
MA202	Clinical Skills II	3.0	60
HI214	ICD Coding II	3.0	60
HI212	CPT-4	2.5	48
CP212	Microsoft Office	3.0	60
MD237	Medical Administrative Skills I	3.0	60
MD200	Pharmacology	2.0	36
		16.5	324

Fifth Term			
MD301	Medical Administrative Skills II	2.5	60
MD207	Medical Insurance Forms	3.0	60
MD239	Practice Management & EHR	2.0	60
MA302	Clinical Skills III	3.0	60
MA105	Laboratory Procedures I	3.0	60
		13.5	300

Sixth Term			
CD204	Job Search Skills	1.0	24
MA205	Laboratory Procedures II	3.0	60
MA301	Medical Seminar	2.0	60
HI205	Medical Legal Aspects	2.0	36
GE172	Human Relations in the Workplace	1.5	36
GE253	Applied Psychology in Health Care	2.0	36
DS101	First Aid & CPR-AHA	0.5	12
		12.0	264

Seventh Term			
CD302	Professional Development	1.5	21
CD301	Certification Preparation	1.5	21
MA602	Medical Assistant Internship	9.0	378
		12.0	420

## Medical Office Specialist . . .

The health care industry is continually undergoing change. New technology and a more competitive environment for both hospitals and physicians have made it necessary for the medical office specialist to be skilled in many areas.

Medical office specialists are dedicated to assisting in patient care and proficient in a wide range of skills. They transcribe medical reports, code diagnoses and procedures, submit insurance forms for reimbursement, and may assist physicians with professional reports. In addition, they may perform general office duties such as greeting patients, scheduling appointments, billing patients for office visits and treatments, and maintaining medical and financial records.

Because of the rapid growth in the health care industry, a well-trained medical office specialist will have a wide variety of opportunities from which to choose. Employment is found in multi-specialty clinics, managed care organizations, group practices, insurance companies, physician offices, and various departments of the hospitals.

Certification as a registered medical transcriptionist, certified coding associate, or certified medical reimbursement specialist is also available. Increasingly sophisticated computer technology for the medical office makes continuing education a must for the successful medical office specialist.

***The Medical Office Specialist program is offered at the Altoona and State College locations.***

**MEDICAL OFFICE SPECIALIST  
ASB Degree Program  
90.5 credits/2052 clock hours**

<u>Code</u>	<u>Course</u>	<u>Credits</u>	<u>Clock Hours</u>
<u>First Term</u>			
GE164	Anatomy & Physiology I	3.5	58
GE165	Anatomy & Physiology I Lab	0.5	14
CP101	Introduction to Computing	1.5	30
AP105	Keyboarding/Word Essentials	1.5	30
GE170	Business English I	2.5	60
PD119	Personal Development	1.0	24
GE177	Mathematics for Health Care Professionals	3.0	60
MD114	Medical Terminology I	<u>2.0</u>	<u>36</u>
		15.5	312
<u>Second Term</u>			
GE166	Anatomy & Physiology II	3.5	58
GE167	Anatomy & Physiology II Lab	0.5	14
MD105	Medical Terminology II	2.0	36
WP202	Word Processing	3.0	60
HI202	Introduction to the Health Care Field	3.5	60
AP104	Keyboarding Speedbuilding Lab	0.5	24
GE171	Business English II	<u>3.0</u>	<u>60</u>
		16.0	312
<u>Third Term</u>			
GE245	Business English III	2.5	60
HI213	ICD Coding I	3.0	60
HI122	Health Data Content and Reimbursement	3.0	60
MD202	Fundamentals of Medical Transcription	1.5	30
GE250	Oral Business Communications	1.0	24
HI100	Pathophysiology	4.0	72
GE253	Applied Psychology in Health Care	<u>2.0</u>	<u>36</u>
		17.0	342
<u>Fourth Term</u>			
CD204	Job Search Skills	1.0	24
HI214	ICD Coding II	3.0	60
MD238	Medical Transcription Skill Building	2.0	60
HI212	CPT-4	2.5	48
CP212	Microsoft Office	3.0	60
MD237	Medical Administrative Skills I	3.0	60
MD200	Pharmacology	<u>2.0</u>	<u>36</u>
		16.5	348
<u>Fifth Term</u>			
MD301	Medical Administrative Skills II	2.5	60
MD207	Medical Insurance Forms	3.0	60
AP108	Telephone & Receptionist Techniques	1.0	24
HI205	Medical Legal Aspects	2.0	36
GE172	Human Relations in the Workplace	1.5	36
MD330	MOS Capstone Project	1.0	30
MD239	Practice Management & EHR	<u>2.0</u>	<u>60</u>
		13.0	306
<u>Sixth Term</u>			
MD603	Medical Office Specialist Internship	9.0	378
CD302	Professional Development	1.5	21
MD219	First Aid & CPR <b>OR</b>	0.5	12
DS101	First Aid & CPR-AHA	(0.5)	(12)
CD301	Certification Preparation	<u>1.5</u>	<u>21</u>
		12.5	432

When students are scheduled for internship, they may be required by the internship site to have a physical examination and evidence of updated immunizations. They may also be required to have a criminal background check or to submit to random drug screenings and fingerprinting.

For more information about our graduation rates, the median debt of students who completed the program, and other important information, please view our website at [www.southhills.edu/disclosures/gainful\\_employment\\_disclosure.php?program=mos](http://www.southhills.edu/disclosures/gainful_employment_disclosure.php?program=mos).

# COURSE DESCRIPTIONS

## GUIDE TO COURSE DESCRIPTIONS

AC	Accounting	GE	General Education
AP	Administrative Professional	HI	Health Information
CD	Career Development	LE	Legal
CE	Civil Engineering	MA	Medical Assistant
CJ	Criminal Justice	MD	Medical
CP	Computers	MG	Management
DS	Diagnostic Medical Sonography	MK	Marketing
ET	Engineering Technology	PD	Personal Development
GA	Graphic Arts	WP	Word Processing

*Beginning courses are 100 level, more advanced courses are 200 and 300 level, and internships are indicated at the 600 level.*

*General education courses are listed below. Course descriptions may be found in the alphabetic listing.*

GE164 Anatomy & Physiology I	GE247 Business Writing	GE177 Mathematics for Health Care Professionals
GE165 Anatomy & Physiology I Lab	GE201 Economics	GE250 Oral Business Communications
GE166 Anatomy & Physiology II	GE301 Engineering Economics	GE251 Oral Presentation Skills
GE167 Anatomy & Physiology II Lab	GE238 English Composition	GE203 Psychological Foundations of CJ
GE168 Applied Algebra	GE248 English Composition for the Office	GE160 Physics
GE240 Applied Algebra II	GE255 Geometry for Design	GE161 Physics Lab
GE241 Applied Geometry & Trigonometry	GE249 Health Care Statistics	GE215 Public Speaking
GE242 Applied Physics	GE219 Human Relations	GE154 Sociology for Criminal Justice
GE243 Applied Physics Lab	GE172 Human Relations in the Workplace	GE224 Speech
GE169 Applied Psychology	GE173 Introduction to Business Math	GE246 Statistical Methods and Applications
GE253 Applied Psychology in Health Care	GE174 Introduction to Business Statistics	GE217 Statistics
GE120 Art History	GE139 Introduction to Literature	GE269 Technical Presentations
GE254 Art History for the Graphic Designer	GE236 Introduction to Psychology	GE252 Technical Writing
GE244 Business Economics	GE148 Introduction to Sociology	GE237 Technical Writing
GE170 Business English I	GE175 Introduction to Sociology for CJ	GE157 Writing for Criminal Justice
GE171 Business English II	GE163 Introduction to Statistics	GE155 Writing for Criminal Justice
GE245 Business English III	GE176 Introduction to Statistics for CJ	
GE162 Business Mathematics		

**DS223 ABDOMINAL ULTRASOUND I (3.0 credits/60 clock hours)** Presents normal and abnormal conditions of the gallbladder, liver, spleen, pancreas, abdominal vasculature, kidneys, adrenals, and bile ducts. Describes in detail the proper techniques of imaging each individual organ, including transducer selection, patient position, and scan technique. Covers the interrelationships of various organs in disease processes such as renal carcinoma, metastatic liver disease, adult and juvenile polycystic kidney disease, gallstones, adrenal tumors, and obstructive jaundice. This course includes an integrated, hands-on scanning component with required competency assessment. Prerequisite: Must be enrolled in DMS, DPP, or DMP programs.

**DS261 ABDOMINAL ULTRASOUND II (3.0 credits/60 clock hours)** Presents abnormal benign and malignant conditions of the gallbladder, liver, spleen, pancreas, abdominal vasculature, kidneys, adrenals, bile ducts, abdominal wall, retroperitoneum, peritoneum, and great vessels. Including ultrasound-guided biopsy and drainage of the abdomen and pelvis, organ transplantation and ultrasound-guidance of catheters. Moves from techniques for scanning individual organs to learning complete scanning protocols. Covers the interrelationships of various organs in disease processes such as renal carcinoma, primary and metastatic liver disease, adult and juvenile polycystic kidney disease, gallstones, gallbladder carcinoma, gallbladder polyps, adrenal tumors, pancreatic tumors, obstructive and non-obstructive jaundice, hydronephrosis, hepatitis, cirrhosis, aortic aneurysms and dissections, lymphoma, leukemia, ascites and effusions. This course includes an integrated, hands-on scanning component with required competency assessment. Prerequisite: Abdominal Ultrasound I. Must be enrolled in DMS, DPP, or DMP programs.

**AC104 ACCOUNTING I (3.5 credits/60 clock hours)** The purpose of this course is to acquaint the student with the relationships between accounting and business and to define basic accounting terminology. Accounting is introduced as the common financial language used in business organizations. The course emphasizes the importance of following accepted accounting principles so that a business' financial position can be appropriately evaluated. In addition, students are introduced to the double-entry system, journals, ledgers, trial balances, worksheets, preparation of the income statement, statement of owner's equity, and balance sheet; adjusting and closing entries; accounting for merchandising operations, classified financial statement formats, and ratio analysis. The sole proprietorship business entity is used throughout this course as it pertains to service-oriented and merchandising operations. Prerequisite: None.

**AC209 ACCOUNTING II (3.5 credits/60 clock hours)** Accounting II further expands on the principles and procedures introduced in Accounting I. The course begins with an overview of manual and computerized accounting systems, emphasizing integrated systems using special purpose journals. This course continues with the topics of internal controls, banking transactions, and detailed studies of the accounting for short-term investments, receivables, merchandise inventory, notes payable, and long-term assets. A simulation of accounting for a merchandising enterprise is also used for reinforcement purposes. Prerequisites: Accounting I (minimum grade of C-) and Business Mathematics taken prior to or concurrently.

**AC300 ACCOUNTING III (3.5 credits/60 clock hours)** Accounting III is a continuation of an in-depth study of financial accounting concentrating on partnership and corporate entities, including LLC's. This course includes the recording and reporting of partner and member investments, withdrawals

and liquidation, corporate contributed capital, retained earnings, and long-term liabilities. In addition, the preparation of the statement of cash flow, the corporate income statement, and analysis of financial statements will be discussed. Prerequisite: Accounting II (minimum grade of C-).

**AP602 ADMINISTRATIVE PROFESSIONAL INTERNSHIP (9.0 credits/378 clock hours)** To fulfill the requirements of the internship, the student will participate throughout his/her final term in a work-experience program which directly relates to the computerized office. Under the supervision of an administrator, office manager, or computer technician the student will have the opportunity to enhance his/her education, personal skills, computer skills, and observe the interaction of personnel within an office environment. Prerequisite: As per internship policy.

**AP300 ADMINISTRATIVE PROFESSIONAL SEMINAR (1.5 credits/21 clock hours)** This course supplements the on-the-job training of the internship. The purpose is to help students become more professional by assisting the student to be better prepared for the Microsoft Certification examination, extending the student's knowledge of software, and/or introducing the student to topics that will increase the student's skill sets. Prerequisite: As per internship policy.

**CP250 ADVANCED BUSINESS APPLICATIONS (3.5 credits/60 clock hours)** This course covers advanced topics in word processing, spreadsheet and presentation applications. This course builds upon the skills acquired in the Business Applications course. Prerequisite: Business Applications.

**HI300 ADVANCED CODING (1.0 credits/30 clock hours)** ) This course is designed to give the student a more in-depth exposure to ICD-10 CM, ICD-10 PCS and CPT coding. The concepts of proper sequencing, the importance of complications and comorbidities, the importance of quality documentation, and the impact on reimbursement will be reinforced. The student will code from patient records and patient scenarios utilizing the encoder/grouper. Prerequisites: CPT-4, ICD Coding II, Health Data Content and Reimbursement.

**GA207 ADVANCED COMPUTER GRAPHICS (3.0 credits/60 clock hours)** This course is designed to further examine scanning various medias, photo-retouching and image manipulation using Adobe Photoshop using advanced techniques. Students will use software to manipulate photos using an assortment of techniques, masking, filters, resize, colorize, and re-sample for various design and multi-media formats. Prerequisite: Introduction to Computer Graphics (Photoshop).

**CP210 ADVANCED DATABASE APPLICATIONS (1.5 credits/30 clock hours)** In this course in database management, students will build on the database concepts and terminology which were covered in Database. The focus of the course will be to create a project—a working database application, using several linked tables. The skills that will be enhanced are the design and creation of tables, custom forms, labels, queries, reports, and a menu system. Prerequisite: Database.

**CP216 ADVANCED SPREADSHEET APPLICATIONS (1.5 credits/30 clock hours)** The student will be taught advanced techniques in spreadsheets, building on the skills learned in Spreadsheets. A class project will serve as the lecture base and individual projects will provide student interaction with spreadsheet applications. Prerequisite: Spreadsheets.

**CP243 ADVANCED WEB SITE DESIGN (3.0 credits/60 clock hours)** This course will continue to introduce new and advanced features of web site graphics development using Adobe Photoshop/ImageReady along with an introduction to Macromedia Flash. Various methods of site design will be covered and students will be given more of a foundation on which to further explore the possibilities of web site graphics, including site design, navigation, color theory, photo manipulation, optimization, and animation. Prerequisite: Web Site Design.

**WP205 ADVANCED WORD PROCESSING (3.0 credits/60 clock hours)** This course is designed to further the student's knowledge of Microsoft Office, Microsoft Word, and Microsoft Windows. Students learn advanced features such as macros, electronic forms, and document collaboration. The course includes integrating Word and Excel. Prerequisites: Keyboarding I & Lab or Keyboarding/Word Essentials and Word Processing.

**MK201 ADVERTISING & PUBLIC RELATIONS (2.5 credits/60 clock hours)** This course is designed to cover two areas. Advertising will concentrate on two segments: (1) the technique and strategy of creating and writing advertisements and (2) an exploration of the advertising media available. Public relations, as related to an organization's image and its relationship to advertising, will be discussed. Upon completion the students will have a basic understanding of where and how advertising and public relations fit into our marketing, economic, and political lives. Prerequisite: None.

**GA201 ADVERTISING DESIGN (3.0 credits/60 clock hours)** This course explores theories, methods and strategies for effectively selling a product. It provides the students with concepts of a product, price, promotion, and market analysis. Students will be lectured on target audiences, budgets, strategies, and overall company vision. Hands-on projects and presentations will be developed by the student. Prerequisites: Electronic Design I (Quark) or Electronic Design II (InDesign), Typography, Computer Graphics – Illustrator.

**LE117 AMERICAN CONSTITUTIONAL LAW (3.0 credits/60 clock hours)** This course explores constitutional foundations of the three branches of the national government, the evolution of federal-state relationships, and a study of the nature of the judicial process, including the concepts of precedent and judicial review. The Bill of Rights and concepts of Equal Protection and Due Process will also be studied in relation to current societal issues. Prerequisite: None.

**CJ115 AN INTRODUCTION TO THE PENNSYLVANIA CRIMINAL JUSTICE HANDBOOK (2.0 credits/36 clock hours)** This course provides an overview of the statutes contained in the Pennsylvania Criminal Justice Handbook. It focuses on the methods of use for this book so that students can apply the appropriate statute to the conduct involved. It continues into specific exploration of the major statutes in the handbook, including the Crimes Code, the Vehicle Code, PA Rules of Criminal Procedures, Pennsylvania Legal Guidelines, and miscellaneous statutes. Prerequisite: Introduction to Criminal Law.

**GA106 ANALYSIS OF FORM & SPACE (2.0 credits/60 clock hours)** This course further develops basic drawing skills and understanding of visual language through studio instruction/drawing/lecture. It introduces concepts such as proportion, space, perspective, tone and composition as applied to still life, landscape and the future. It uses drawing media such as pencils, charcoal, ink wash and color media. Prerequisite: None.

**GE164 ANATOMY & PHYSIOLOGY I (3.5 credits/58 clock hours)** This course begins with an introduction to the human body which includes the chemical, cellular, and tissue level of organization. Then it progresses to comprehensive anatomy and physiology of the integumentary, skeletal, muscular, and nervous systems. Lab projects will be coordinated with specific systems. Prerequisite: None.

**GE166 ANATOMY & PHYSIOLOGY II (3.5 credits/58 clock hours)** This course is a continuation of comprehensive anatomy and physiology covering the following body systems: sensory, endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive. Laboratory projects will be coordinated with specific systems. Prerequisites: Anatomy & Physiology I and Medical Terminology I.

**GE165 ANATOMY & PHYSIOLOGY I LAB (.5 credit/14 clock hours)** Lab projects are coordinated with specific systems studied in Anatomy & Physiology I. Prerequisite: Must be taken concurrently with Anatomy & Physiology I.

**GE167 ANATOMY & PHYSIOLOGY II LAB (.5 credit/14 clock hours)** Lab projects are coordinated with specific systems studied in Anatomy & Physiology II. Prerequisites: Anatomy & Physiology I, Anatomy & Physiology I Lab. Must be taken concurrently with Anatomy & Physiology II.

**CP249 ANDROID APPLICATION DEVELOPMENT (3.5 credits/60 clock hours)** This course introduces the student to the Android operating system and Android SDK. Students will learn skills required for creating and deploying Android applications. Lecture time will be used to explain the different components of Android development, and create small applications that illustrate how the various components are built. Prerequisite: Java Programming or C# Programming.

**GE168 APPLIED ALGEBRA (3.0 credits/60 clock hours)** Applied Algebra is designed to cover basic mathematical and algebraic concepts with an emphasis on logical thinking skills. The topics that will be covered are review of decimals and fractions, basic definitions, operations with signed numbers, order of operations, simplifying algebraic expressions, evaluating algebraic expressions and everyday formulas, manipulating and solving equations and everyday formulas, graphing, exponents, different base systems, ratios, proportions, and percentages. Each concept will involve word problems that are applied in both business and technical careers. This course forms the foundation for future courses in algebra, computer programming, electronics, accounting, statistics and software application courses. Prerequisite: None

**GE240 APPLIED ALGEBRA II (3.0 credits/60 clock hours)** Applied Algebra II is designed to expand on the concepts developed in Applied Algebra. The topics covered are scientific notation, review of measurements, operations of real numbers, polynomials, factoring, operations of rational expressions, simplifying radicals, solving equations and inequalities, and solving systems of equations. Each concept will involve word problems that are applied in both business and technical careers. This course forms a mathematical foundation for physics and courses in electronics. Prerequisite: Applied Algebra. Additional prerequisite for Engineering Technology program: Successful completion of Applied Algebra with a minimum grade of "B-".

**GE241 APPLIED GEOMETRY AND TRIGONOMETRY (3.0 credits/60 clock hours)** Applied Geometry & Trigonometry is designed to prepare engineering professionals with a basic knowledge in Geometry and Trigonometry concepts used by engineering professionals. The topics covered are angular measure, calculations of perimeter, area, volume, and surface area of geometric figures, trigonometric functions with right triangles, and trigonometric functions with oblique triangles. With each concept students apply their knowledge to real-world situations in the engineering field. This course forms a mathematical foundation for future courses such as Civil CAD, Machining Processes, and CNC Programming. Prerequisite: Applied Algebra II

**GE242 APPLIED PHYSICS (3.0 credits/58 clock hours)** An algebra-based course for the ET, DMS, and DPP program students. Topics covered include technical measurements, simple machines, light and optics, elasticity, fluids, temperature and expansion, wave motion, and sound, as they are applied to Engineering and Sonography. Prerequisite: Applied Algebra II or enrolled in Diagnostic Medical Sonography Professional Plus (DPP) program.

**GE243 APPLIED PHYSICS LAB (0.5 credits/14 clock hours)** A lab-based course for the ET, DMS, and DPP program students. Topics covered include technical measurements, simple machines, light and optics, elasticity, fluids, temperature and expansion, wave motion, and sound. Students work together in laboratory exercises to supplement the lectures. Prerequisites: Applied Algebra II or enrolled in Diagnostic Medical Sonography Professional Plus (DPP) program. This course is taken concurrently with Applied Physics.

**GE169 APPLIED PSYCHOLOGY (2.0 credits/36 clock hours)** This course is an overview of basic psychological principles and concepts. Students will be exposed to major theoretical perspectives in psychology and will explore methods and findings based in scientific research. Emphasis will be placed on the practical use of these concepts as they apply to the student's life and particular career. Topics of study include learning, memory, thinking, and intelligence; motivation, emotion, personality, stress and social psychology. Prerequisite: None.

**GE253 APPLIED PSYCHOLOGY IN HEALTHCARE (2.0 credits/36 clock hours)** The relationship of psychology and states of consciousness to behavior are explored. Topics of study include an introduction to the areas of health psychology, personality, grieving, function, dysfunction, beliefs, common disorders, and caregiving. Emphasis is placed on the application of these principles in the student's work in the healthcare field. Prerequisite: None.

**IM230 ARCHITECTURAL CAD (3.5 credits/72 clock hours)** An introduction to the concepts, practices, standards, and drafting techniques used in residential/light commercial architectural drafting and design. This will include but not be limited to elevations, floor plans, framing plans, foundation plans, and construction details. Additionally framing methods, wall sections, and general construction specifications are covered. Prerequisites: Mechanical CAD and Building Codes.

**IM237 ARCHITECTURAL CAD II (3.0 credits/60 clock hours)** An introduction to the concepts, practices, standards, and drafting techniques used in residential/light commercial architectural drafting and design using AutoCAD Revit. This will include but not be limited to floor plans, elevations, dimension plans, foundation plans, and construction details. Additionally framing methods, wall sections, and general construction specifications are covered. Rendering Plans will also be covered. Prerequisite: Architectural CAD.

**GE120 ART HISTORY (4.0 credits/60 clock hours)** This hands-on course will cover the history of art, focusing on the significant periods in time in which the face of art and design has been altered. It will explore the interrelationship between historical, social, political, religious, and technological developments throughout the history of art. This course will address the modern artist's role in society along with how to integrate key periods of art into the designer's modern work. Prerequisite: None

**GE254 ART HISTORY FOR THE GRAPHIC DESIGNER (3.0 credits/60 clock hours)** This hands-on course will cover the history of art, focusing on the significant periods in time in which the face of art and design has been altered. It will explore the interrelationship between historical, social, political, religious, and technological developments throughout the history of art. This course will address the modern artist's role in society along with how to integrate key periods of art into the designer's modern work. Prerequisite: None

**AC206 AUDITING (3.0 credits/60 clock hours)** Presents broad concepts of auditing principles. Highlights the philosophy and environment of the auditing profession; presents the importance of the auditing process as it relates to a client with a focus on internal control, the audit evidence documented by working papers, and audit reports. Prerequisite: Intermediate Accounting I.

**CP240 BASIC 3D MODELING & ANIMATION (3.0 credits/60 clock hours)** Students will use open source 3D software to create 3D models and animate them in short videos. Prerequisite: None.

**MG300 BASIC PERSONAL FINANCE (1.5 credits/21 clock hours)** Upon completion of this course, the student will be able to: set realistic financial goals; understand how, when, and where a recordkeeping system should be developed; develop a budget; understand debt and debt reduction; and understand Social Security benefits. Additionally, the following topics will be covered: savings and investment, the home as an investment, funding college education, purchasing an automobile, insurance, retirement, and wills. Prerequisite: None.

**CE110 BUILDING CODES (2.0 credits/36 clock hours)** An introduction to international building codes (IRC) that govern residential and light commercial construction. Students explore codes as they relate to the administration, building and planning, safety and fire construction requirements. Prerequisite: Introduction to CAD.

**AC602 BUSINESS ADMINISTRATION – ACCOUNTING INTERNSHIP (9.0 credits/378 clock hours)** Students spend 378 hours during the final term in a practical, on-the-job work-experience program directly involved in manual or automated accounting operations under the supervision of a professional to fulfill the requirements of the internship. Experience will provide the student with an opportunity to enhance his/her education and personal skills as well as opportunity to observe the interaction of accounting personnel within an employment environment. Prerequisite: As per internship policy.

**MG602 BUSINESS ADMINISTRATION – MANAGEMENT & MARKETING INTERNSHIP (9.0 credits/378 clock hours)** The student will work in a professional atmosphere in either the area of management or marketing under the supervision of a professional to fulfill the requirements of the internship. The experience will provide the student with an opportunity to observe the interaction of personnel within a business environment. Prerequisite: As per internship policy.

**CP113 BUSINESS APPLICATIONS (3.0 credits/60 clock hours)** This course introduces students to the concepts and applications of word processing, spreadsheets, presentation, and e-mail software. Students will receive hands-on lab experience acquainting the student with a broad range of tools and techniques for each application. Prerequisite: None.

**GE244 BUSINESS ECONOMICS (3.0 credits/60 clock hours)** This course is designed to introduce the student to the basic fundamentals of economics and how such knowledge can help them in understanding business decisions as well as personal decisions. We will discuss the principles of supply, demand, and market equilibrium and how these principles affect price and production in various economies along with graphs demonstrating how pricing decisions relates to these principles. We will discuss how marginal analysis is used to make business decisions. Monetary and fiscal policy will be discussed, including how fiscal policy affects the workplace. We will discuss varying degrees of competition and the subsequent effects on our economy. Students will research a current topic and apply economic principles to prepare a paper related to their field of study. Prerequisite: None.

**GE170 BUSINESS ENGLISH I (2.5 credits/60 clock hours)** Students will learn and apply the current practices of effective oral and written communication skills necessary for success in business. They will study and practice writing skills needed to write and speak in a manner acceptable to the business community. Prerequisite: None.

**GE171 BUSINESS ENGLISH II (3.0 credits/60 clock hours)** Business English II further expands upon the skills and applications introduced in Business English I. Students will continue learning and applying the current practices of effective oral and written communication skills necessary for success in business. They will study and practice writing skills needed to write and speak in a manner acceptable to the business community. Prerequisite: Business English I (minimum grade of C-).

**GE245 BUSINESS ENGLISH III (2.5 credits/60 clock hours)** In order to prepare them to be successful writers of business correspondence, students will, via individual and group practice, apply the skills learned to writing effective business messages by memo, letter and e-mail. Additionally, students prepare a resume, letter of application, and thank-you letter. Prerequisites: Business English I and II (minimum grade of C-).

**LE115 BUSINESS LAW (2.0 credits/36 clock hours)** This course provides students with basic understanding of the principles of law and its application to business. Students are introduced to the definition of law, the reasons for and methods of government regulation of business, and the basic structure of our legal system. Basic aspects of contract law are covered in detail. Discussion will revolve around the ways that business and law interact and how law benefits the business organization and the consumer. Prerequisite: None.

**GE162 BUSINESS MATHEMATICS (3.0 credits/60 clock hours)** This course is designed to refresh the student's knowledge of math fundamentals and to apply these fundamentals in business and everyday life. The following concepts will be covered: review of percentage, simple interest, compound interest, sinking fund, annuities, inventory, depreciation, payroll, cash and trade discounts, markup and markdown, banking and related areas. Prerequisite: None

**MG206 BUSINESS PLAN (3.0 credits/84 clock hours)** This is the capstone course for the Business Administration – Management & Marketing program and gives students an opportunity to test their knowledge and skills. The students utilize management and marketing concepts and theories as they "start" their own small business and set organizational goals. A comprehensive business plan is written and formally presented. The plan includes a presentation of financial forecasts derived from accounting projections that could be used to open and operate the business for the first few years. Advertising and promotional campaigns are also included. This plan is a quantitative as well as a qualitative analysis. Prerequisites: Management I and II, Marketing, Small Business Management, Market Research & Statistics, Advertising & Public Relations, Managerial Accounting with Quickbooks, Accounting I, Accounting II, and having a 2.0 cumulative GPA going into the Business Plan.

**GE247 BUSINESS WRITING (2.5 credits/60 clock hours)** Students apply the principles of composition and psychology to writing effective business messages by composing memos and letters for typical business situations. Students prepare a resume, letter of application, and thank-you letter. Additionally, students write a research paper on a topic related to their field of study. Prerequisites: Business English I and II with a minimum of C-.

**CP259 C# PROGRAMMING (3.5 credits/60 clock hours)** This course in C# programming will teach students the fundamentals of C# including object-oriented programming, decision structures, repetition structures, methods and functions, and arrays. Students will follow the program development life cycle to create programs that reinforce the topics covered. Prerequisite: Introduction to Programming & Logic.

**DS243 CARDIAC PATHOPHYSIOLOGY I (3.0 credits/60 clock hours)** Systematic presentation of diseases and conditions of the heart, Part I. Prerequisite: Must be enrolled in DMS, DPP, or DMP programs.

**DS262 CARDIAC PATHOPHYSIOLOGY II (3.0 credits/60 clock hours)** Continued systematic presentation of all acquired diseases and conditions of the heart, as well as presentation of congenital cardiac diseases. Introduces surgical and nonsurgical treatments and repairs. Introduces emerging less invasive cardiac procedures, such as cardiac resynchronization, septal defect repairs, device closure repairs and strain gauge analysis. Prerequisite: Must be enrolled in DMS, DPP, or DMP programs.

**CD301 CERTIFICATION PREPARATION (1.5 credits/21 clock hours)** This course supplements the on-the-job training of the internship. The purpose is to help students become more professional by assisting the student to be better prepared for the certification examination as provided by applicable professional organizations. Prerequisite: As per internship policy.

**CP309 CISCO NETWORKING (3.5 credits/60 clock hours)** This course offers an overview of networking with Cisco hardware. Topics include: the OSI model, TCP/IP protocols, Router and IOS basics, Router configuration, network services, access lists, and switch basics and configuration. Prerequisites: Hardware and Networking Essentials.

**CE204 CIVIL CAD (3.5 credits/72 clock hours)** An introduction to surveying and CAD-based applications in civil engineering. Students will practice plane surveying with a transit; horizontal distances, elevations and angles, level distance measuring, note keeping, and field computations. CAD-based applications will be used to construct topographic maps and site plans. Electronic media; orthophotographs, digital raster graphic (DRG) images and digital terrain models (DTM) will be introduced. Prerequisites: Introduction to Geographic Information Systems, Introduction to CAD, Applied Geometry and Trigonometry or Geometry and Trigonometry.

**CE221 CIVIL DESIGN (3.0 credits/60 clock hours)** This course follows the Civil CAD course and teaches the students to execute simple design assignments. In every assignment, the students determine design requirements by researching requirements in borough and township codes and ordinances. Design assignments include site analysis, earthwork, erosion and sedimentation control plans, and roadways. Students will learn how to calculate: horizontal and vertical roadway alignments, surface water drainage areas and earthwork quantities. Prerequisite: Civil CAD.

**CE222 CIVIL DESIGN (3.5 credits/60 clock hours)** This course follows the Civil CAD course and teaches the students to execute simple design assignments. In every assignment, the students determine design requirements by researching requirements in borough and township codes and ordinances. Design assignments include site analysis, earthwork, erosion and sedimentation control plans, and roadways. Students will learn how to calculate: horizontal and vertical roadway alignments, surface water drainage areas and earthwork quantities. Prerequisite: Civil CAD.

**DS601 CLINICAL INTERNSHIP I (10.0 credits/420 clock hours)** The student is assigned to a carefully selected hospital ultrasound department where he/she will begin by observing ultrasound scans. The student will gradually begin supervised scanning of actual patients, and will eventually perform complete diagnostic procedures with minimal supervision. Supervision of the student is provided by the site medical advisor (physician) and by the supervisory Diagnostic Medical Sonographer. The clinical coordinator of the program maintains regular contact with both of these individuals throughout the course to monitor progress of the student on a week-by-week basis. Prerequisite: Must be enrolled in DMS, DPP, or DMP program.

**DS302 CLINICAL INTERNSHIP II (10.0 credits/420 clock hours)** The student is assigned to a carefully selected hospital ultrasound department where he/she will begin by observing ultrasound scans. The student will gradually begin supervised scanning of actual patients, and will eventually perform complete diagnostic procedures with minimal supervision. Supervision of the student is provided by the site medical advisor (physician) and by the supervisory Diagnostic Medical Sonographer. The clinical coordinator of the program maintains regular contact with both of these individuals throughout the course to monitor progress of the student on a week-by-week basis. Prerequisite: Must be enrolled in DMS, DPP, or DMP program.

**DS602 CLINICAL INTERNSHIP II (10.0 credits/420 clock hours)** The student is assigned to a carefully selected hospital ultrasound department where he/she will begin by observing ultrasound scans. The student will gradually begin supervised scanning of actual patients, and will eventually perform complete diagnostic procedures with minimal supervision. Supervision of the student is provided by the site medical advisor (physician) and by the supervisory Diagnostic Medical Sonographer. The clinical coordinator of the program maintains regular contact with both of these individuals throughout the course to monitor progress of the student on a week-by-week basis. Prerequisite: Must be enrolled in DMS, DPP, or DMP program.

**DS303 CLINICAL INTERNSHIP III (10.0 credits/420 clock hours)** The student is assigned to a carefully selected hospital ultrasound department where he/she will begin by observing ultrasound scans. The student will gradually begin supervised scanning of actual patients, and will eventually perform complete diagnostic procedures with minimal supervision. Supervision of the student is provided by the site medical advisor (physician) and by the supervisory Diagnostic Medical Sonographer. The clinical coordinator of the program maintains regular contact with both of these individuals throughout the course to monitor progress of the student on a week-by-week basis. Prerequisite: Must be enrolled in DMS, DPP, or DMP program.

**DS205 CLINICAL OBSTETRICS (2.5 credits/36 clock hours)** Begins with endocrinology of ovulation, fertilization and implantation, moving on to embryology and progressive development of the fetal and maternal structures throughout the first, second and third trimesters. Physiology and pathophysiology of the placenta are discussed. Emergent conditions such as ectopic pregnancy, placenta abruptio, and impending abortion (miscarriage) are presented. Congenital anomalies, syndromes, intrauterine growth retardation, and other pathologies involving the developing fetus are discussed. Fetal presentation and problems of labor and delivery are covered. Prerequisite: Must be enrolled in DMS, DPP, or DMP program.

**MA102 CLINICAL SKILLS I (3.0 credits/60 clock hours)** This course is the introduction for the student to basic clinical skills. This introduction provides a strong foundation for students in medical programs. Topics include processing medical information, medical asepsis and infection control, and measuring vital signs. Prerequisites: Anatomy & Physiology II and Medical Terminology II.

**MA202 CLINICAL SKILLS II (3.0 credits/60 clock hours)** This course is a continuation of Clinical Skills I to expand the student's knowledge base to assess and assist during minor medical and surgical procedures and examinations. Topics include: assisting with examinations and procedures such as those performed in pediatrics, ophthalmology, and gynecology. Medical asepsis and infection control principles are implemented as the student learns procedures to disinfect and sterilize equipment. Prerequisite: Clinical Skills I.

**MA302 CLINICAL SKILLS III (3.0 credits/60 clock hours)** This course continues to expand the student's knowledge base in the area of cardiovascular disease and testing procedures performed on a medical office. Topics include: recording an electrocardiogram, five steps of rhythm identification, normal ECG rhythm strip interpretation, recognition of cardiac arrhythmias and the appropriate response to each, patient education and preparation for exercise and ambulatory ECG monitoring. Prerequisites: Clinical Skills I & II.

**IM228 CNC PROGRAMMING (3.0 credits/48 clock hours)** This course is an introduction to the computer numerical control (CNC) machines and language used in industry. The students learn how to write and edit programs for drilling, milling, and tool change operations. In addition, students use CAM software to write programs from CAD drawing geometry. Prerequisites: Introduction to CAD, Machining Processes and Machining Processes Lab.

**IM251 CNC PROGRAMMING (2.0 credits/48 clock hours)** This course is an introduction to the computer numerical control (CNC) machines and language used in industry. The students learn how to write and edit programs for drilling, milling, and tool change operations. In addition, students use CAM software to write programs from CAD drawing geometry. Prerequisites: Introduction to CAD, Machining Processes and Machining Processes Lab.

**IM229 CNC PROGRAMMING LAB (0.5 credits/24 clock hours)** Students apply written programs to produce parts on a CNC machine. Students learn how to produce parts safely, accurately, and in a minimum amount of time. A variety of work-holding methods are learned and applied. Prerequisites: Introduction to CAD, Machining Processes, and Machining Processes Lab. This course is taken concurrently with CNC Programming.

**GA110 COLLATERAL DESIGN (3.0 credits/60 clock hours)** The role of graphic design in collateral materials will be introduced and explored with a focus on brochures, billboards, posters, transit cards, point-of-sale materials, direct mail pieces, sales and promotional materials, etc. The process of developing unified advertising collateral materials involving multiple presentations will be emphasized. Prerequisite: Electronic Design I (Quark) or Electronic Design II (InDesign).

**GA112 COLOR THEORY (1.5 credits/36 clock hours)** This fundamental course provides an introduction to the principles of color and the exploration of color theory. Various degrees of color theory are examined, including the psychological and cultural aspects of how these determine and assist the designer in making appropriate design color decisions. Prerequisite: None.

**CP266 COMPUTER FORENSICS (3.5 credits/60 clock hours)** This course on computer forensics will instruct students on understanding computer investigations, data acquisitions, recovering deleted files and partitions, detecting and tracking computer attacks, using current computer forensics tools, and networking forensics. Prerequisites: Hardware and Networking Essentials.

**CP114 COMPUTER FUNDAMENTALS (3.0 credits/60 clock hours)** This course in operating systems is designed to introduce students to the terminology and concepts that are required for computer literacy and for future computer-related courses. Topics to be covered include hardware, software, operating systems, and a brief history of computers. Prerequisite: None.

**GA206 COMPUTER GRAPHICS – ILLUSTRATOR (3.0 credits/60 clock hours)** This course will explore the history, social, and artistic interpretation of typography and digital design elements. Focus will be placed upon a systematic approach and application of typographic elements to stress readability and visibility as well as communications for video, digital publishing, computer animation and broadcast graphics. Desktop application activities will include the integration of computers and vector-based drawing program. Prerequisite: Introduction to Computing.

**CP206 COMPUTER PRESENTATIONS (2.0 credits/48 clock hours)** The course will use a problem-solving approach to teach the use of the computer for presentation purposes. The student will be able to create a business-oriented presentation, document the presentation, and deliver the presentation to an audience. The student will be introduced to the concept of integrating spreadsheets, word processing and graphics with the presentation software program. Prerequisite: Computer Fundamentals, Introduction to Computing, Introduction to Computer Operating Systems or Introduction to Operating Systems.

**AC128 COMPUTERIZED ACCOUNTING (3.0 credits/60 clock hours)** The course introduces students to computerized accounting software and examines the software selection process. This is a hands-on course where the student maintains all aspects of the accounting process for a business using a computerized accounting program. One micro-computer based accounting software product will be utilized to complete an entire accounting cycle involving the accounts receivable, accounts payable, inventory, payroll, job cost allocation, and report generation for a fictitious company. Prerequisite: Accounting I or Introduction to Accounting, with a C- or above.

**MD210 COMPUTERIZED PATIENT BILLING (2.5 credits/60 clock hours)** This course provides instruction in fundamentals of the operation and maintenance of an electronic medical office health record system. This instruction will include use of computerized software for medical office. Prerequisites: Keyboarding Essentials and taken concurrently with Medical Administrative Skills II.

**GA202 CONCEPT DEVELOPMENT (1.5 credits/36 clock hours)** This course focuses on real-world applications of graphic design principles and theory. Problem identification, solving and research methods will be explored. Design solutions will be developed geared to a targeted audience and market will be emphasized. Effective interaction with a creative team will be developed and employed as a resource in the conceptual process, as well as idea-generating exercise. Prerequisites: Electronic Design I (Quark) or Electronic Design II (InDesign) and Introduction to Computer Graphics (Photoshop).

**CP268 CONTENT MANAGEMENT SYSTEMS (3.0 credits/60 clock hours)** This course focuses on the building of websites using commonly used Content Management Systems (CMS). Throughout the course the student will build a web page using a CMS framework. Students will create posts, create pages, add images, customize themes, import plugins, manage comments, explore e-commerce and social media, and focus on SEO. Prerequisite: Web Site Design

**AC202 COST/MANAGERIAL ACCOUNTING (3.0 credits/60 clock hours)** This course introduces the student to cost accounting principles as they apply to the two main cost systems: namely, job order and order process costing. In addition, the use of standard costing under both systems is discussed. Managerial decision making issues such as break even analysis, target profit, target sales, fixed and variable costs and other planning and budgeting topics are presented. Required journal entries based on cost allocations and the resulting financial statement preparation for a manufacturing operation are also introduced. Prerequisites: Accounting II and Business Mathematics.

**AC303 COST/MANAGERIAL ACCOUNTING (3.5 credits/60 clock hours)** This course introduces the student to cost accounting principles as they apply to the two main cost systems: namely, job order and order process costing. In addition, the use of standard costing under both systems is discussed. Managerial decision making issues such as break even analysis, target profit, target sales, fixed and variable costs and other planning and budgeting topics are presented. Required journal entries based on cost allocations and the resulting financial statement preparation for a manufacturing operation are also introduced. Prerequisites: Accounting II and Business Mathematics.

**HI212 CPT-4 (2.5 credits/48 clock hours)** This course introduces the student to the Current Procedural Terminology format and conventions and current coding practices for coding outpatient procedures. CPT is part of the Healthcare Common Coding Procedure Coding System (HCPCS) which contains two levels of codes which will be explained and discussed. Coding principles and guidelines for evaluation and management, surgery, anesthesia, pathology and lab, radiology and medicine will be presented. Prerequisite: ICD Coding I.

**CJ205 CRIMINAL EVIDENCE (2.0 credits/36 clock hours)** This course provides students the opportunity to develop their understanding of the manner in which legal issues and disputes are resolved by trial. The course involves a discussion of the origin, nature, and admissibility of evidence against the accused. The exclusionary rule and the distinction between real and testimonial evidence as admitted or excluded from court proceedings are emphasized. Topics include the hearsay rule and its exceptions, the opinion evidence rule, character and reputation evidence, direct and cross examination of witnesses, burden of proof and presumptions, identification evidence, and other pertinent rules of evidence. Prerequisite: Introduction to Criminal Law.



**CJ221 CRIMINAL INVESTIGATIONS (3.5 credits/60 clock hours)** This course introduces students to the rules and procedures that govern the pretrial processing of criminal suspects and the conduct of criminal trials. It also examines the basic aspects of criminal investigation; presents an overview of crimes and their elements; identifies the major goals of investigation; discuss various techniques and the criminal investigators relationship with individuals and other agencies. Discussion includes a number of issues relevant to the constitutional safeguards, as well as the cases reflecting current trends in criminal procedure. Particular investigative procedures employed in investigation of such crimes as homicide, rape, arson, and organized crime will be detailed. Prerequisites: Introduction to Criminal Law and Criminal Procedures.

**CJ300 CRIMINAL JUSTICE CAPSTONE PROJECT (3.0 credits/60 clock hours)** This is the capstone course for the Criminal Justice program and gives students an opportunity to test their knowledge and skills. The students utilize criminal justice concepts and theories as they develop their own projects that range from responding to an emergency procedure and/or a crime, processing the crime scene, following it through the system, applying legal concepts and preparing the proper reports. Students are required to write a comprehensive report and present it formally in a power point presentation. Prerequisites: Writing for Criminal Justice, Introduction to Corrections, Introduction to Law Enforcement, Criminal Evidence, and Criminal Procedures or Criminal Procedures I and Criminal Investigations or Criminal Procedures II.

**CJ602 CRIMINAL JUSTICE INTERNSHIP (9.0 credits/378 clock hours)** To fulfill the requirements of the internship, the student will participate throughout his/her final term in a work-experience program which directly relates to the criminal justice system. Under the supervision of a site supervisor, the student will have the opportunity to enhance his/her education, personal skills, computer skills, and observe the interaction of personnel within a criminal justice environment. Prerequisite: As per internship policy.

**CJ222 CRIMINAL PROCEDURES (3.5 credits/60 clock hours)** This course introduces students to rules and procedures governing investigations, arrests, pretrial processing of criminal suspects and the conduct of criminal trials. The impact of the United States Constitution on criminal investigations and prosecutions is examined in detail with particular focus on the exclusionary rule and other ramifications for constitutional violations in the investigative process. Students will analyze major Supreme Court decisions affecting law enforcement with particular emphasis on the Fourth, Fifth and Sixth Amendments. Discussion includes a number of issues relevant to current investigative trends and in balancing the competing interests of privacy and individual autonomy against those of law enforcement. Prerequisite: Introduction to Criminal Law.

**CJ212 CRIMINAL PROCEDURES I (3.0 credits/60 clock hours)** This course introduces students to rules and procedures governing investigations, arrests, pretrial processing of criminal suspects and the conduct of criminal trials. The impact of the United States Constitution on criminal investigations and prosecutions is examined in detail with particular focus on the exclusionary rule and other ramifications for constitutional violations in the investigative process. Students will analyze major Supreme Court decisions affecting law enforcement with particular emphasis on the Fourth, Fifth and Sixth Amendments. Discussion includes a number of issues relevant to current investigative trends and in balancing the competing interests of privacy and individual autonomy against those of law enforcement. Prerequisite: Introduction to Criminal Law.

**CJ213 CRIMINAL PROCEDURES II (3.0 credits/60 clock hours)** Introduces students to the rules and procedures that govern the pretrial processing of criminal suspects and the conduct of criminal trials. This course also examines the basic aspects of criminal investigation; presents an overview of crimes and their elements; identifies the major goals of investigation; discuss various techniques and the criminal investigators relationship with individuals and other agencies. Discussion includes a number of issues relevant to the constitutional safeguards, as well as the cases reflecting current trends in criminal procedure. Particular investigative procedures employed in investigation of such crimes as homicide, rape, arson, and organized crime will be detailed. Prerequisites: Introduction to Criminal Law and Criminal Procedures I.

**CJ217 CRIMINOLOGY (3.5 credits/60 clock hours)** This course examines the extent and nature of crime in today's societies, the nature of criminal behavior and other forms of deviance. Major areas of investigation include general characteristics of crime and criminals, social and individual factors producing criminality, the most significant theoretical contributions to the study of crime and delinquency, and specific forms of crime. Prerequisite: Introduction to Criminal Justice.

**CJ301 CRITICAL ISSUES FOR THE CRIMINAL JUSTICE PROFESSIONAL (1.5 credits/21 clock hours)** This course will review the current issues in criminal justice that the students will face as they enter the workplace. Prerequisites: Writing for Criminal Justice, Introduction to Corrections, Introduction to Law Enforcement, Criminal Evidence, Criminal Investigations or Criminal Procedures II.

**DS219 CROSS SECTIONAL & THREE-DIMENSIONAL ANATOMY (2.5 credits/36 clock hours)** Presents human anatomy in various planes, and spatial relationships of organs to one another. Presents anatomic detail in cross-sectional format in 1 cm thick "slices" of the human body. Compares actual anatomical sections with ultrasound, computed topography, and MRI images. Prerequisite: Must be enrolled in DMS, DPP, or DMP programs.

**MG196 CUSTOMER RELATIONS (1.5 credits/36 clock hours)** Principles of customer service and customer service techniques will be presented. Emphasis will be placed on communication skills, problem solving, customer retention issues, and the development of customer service strategies and policies. Prerequisite: None.

**LE105 CYBERLAW (2.0 credits/36 clock hours)** This course explores legal issues and principals applicable to changing technology. Students are introduced to an overview of the legal system with particular emphasis on jurisdiction and potential legal ramifications of using the internet to reach a world-wide audience. Intellectual property issues, including copyrights, trademarks and patents are also explored in detail along with legal issues in employment relationships, privacy, and internet crimes. Prerequisite: None.

**CP105 DATABASE (3.0 credits/60 clock hours)** This course will cover beginning and intermediate database topics. The student will learn what a database is and how it is used in business. The student will also learn how to design and build a database, tables, reports, queries and forms. Prerequisite: Computer Fundamentals, Introduction to Computing, Introduction to Computer Operating Systems, or Introduction to Operating Systems.

**CP307 DATABASE ADMINISTRATION (3.5 credits/60 clock hours)** This course will cover advanced database topics. The student will learn how to create and manage databases including security and performance issues. Prerequisite: Database.

**CP260 DATABASE PROGRAMMING (3.5 credits/60 clock hours)** Students will build on database concepts developed in Database and on programming skills which were developed in programming courses. Included will be designing, writing, testing, debugging, and implementing programs in a current database language. Prerequisite: Database.

**GA304 DESIGN FOR INTERACTIVE MEDIA (3.0 credits/60 clock hours)** In this course students will be introduced to computational design in the context of interactive media applications. Students will learn to utilize software within design processes and to develop interactive applications for digital media. The objective of this course is to explore digital media through exercises, presentations, critiques and discussions. Static, dynamic and interactive graphics will be developed in a series of exercises, dealing with form, image, motion, gesture and interface. Prototyping skills for working with

interactive media will be acquired while developing creative ideas and concepts. Prerequisites: Electronic Design I (Quark) or Electronic Design II (InDesign), Typography, Computer Graphics – Illustrator.

**WP203 DESKTOP PUBLISHING I (3.0 credits/60 clock hours)** This course teaches students to create professional printed materials such as brochures, forms, newsletters, reports, and booklets on the computer. Students will learn basic design and page layout skills and produce a variety of documents which incorporate text and graphics. Prerequisites: Keyboarding I & Lab or Keyboarding Essentials or Keyboarding/Word Essentials, and Word Processing.

**WP204 DESKTOP PUBLISHING II (1.0 credit/24 clock hours)** This course is a continuation of Desktop Publishing I in which students will learn other software applications. Prerequisites: Keyboarding I & Lab or Keyboarding Essentials or Keyboarding/Word Essentials and Desktop Publishing I.

**GA300 DIGITAL PHOTOGRAPHY (3.0 credits/60 clock hours)** Introduces students to the history and aesthetics of photography, while encouraging artistic expression and experimentation with picture content and design focused around identifying the basic photographic tools and their intended purpose, including the proper use of camera systems, lighting, and composition. Students will learn how to operate a camera, download, print making to editing, along with presentation. Prerequisite: None.

**GA208 DIGITAL PRE-PRESS (3.0 credits/60 clock hours)** Students complete multiple-page digital pre-press documents that include scanned and edited images, object-defined graphics and text through the integration of a variety of files. The place of digital page make-up in modern print production is studied. Prerequisite: Electronic Design I (Quark) or Electronic Design II (InDesign).

**KE149 DOCUMENT PROCESSING (3.0 credits/56 clock hours)** This course is designed to develop the student's ability to take unarranged material and type it into error-free business documents. Proofreading, accuracy in formatting, and speed will be further developed through working with projects. Prerequisites: Keyboarding II, Keyboarding II Lab and Word Processing with a grade of C- or better.

**AP201 DOCUMENT PROCESSING (3.0 credits/56 clock hours)** This course is designed to develop the student's ability to take unarranged material and type it into error-free business documents. Proofreading, accuracy in formatting, and speed will be further developed through working with projects. Prerequisites: Keyboarding II, Keyboarding II Lab and Word Processing with a grade of C- or better.

**KE148 DOCUMENT PROCESSING LAB (1.0 credit/28 clock hours)** This course is designed to provide extra time on drill work and timed writings in order to increase speed and accuracy. The student's updated keyboarding speed will be recorded within the student's personal file. Prerequisites: Keyboarding II and Keyboarding II Lab with a grade of C- or better.

**AP202 DOCUMENT PROCESSING LAB (1.0 credit/28 clock hours)** This course is designed to provide extra time on drill work and timed writings in order to increase speed and accuracy. The student's updated keyboarding speed will be recorded within the student's personal file. Prerequisites: Keyboarding II and Keyboarding II Lab with a grade of C- or better.

**CJ211 DRUGS, CRIME AND CRIMINAL JUSTICE (3.0 credits/60 clock hours)** This course examines the role that drugs play in the U.S. Criminal Justice system. Topics covered include the identification of drugs, their physiological and psychological effects, and the recognition of the physical indicators and behavior patterns of a person under the influence of drugs. This course also discusses the relationship between drugs and crime and will include investigation techniques that law enforcement use to apprehend drug users and traffickers. Methods of intervention and treatment are analyzed and response strategies from the War on Drugs to more recent innovations such as therapeutic communities, drug courts, and decriminalization will be focused upon. Prerequisite: None.

**DS244 ECHOCARDIOGRAPHY I (3.0 credits/60 clock hours)** Presentation of instrumentation and principles of Transthoracic Echocardiographic Exam Part I; including M-Mode, Two-Dimensional (2D) imaging; all views. Presentation of potential artifacts, optimization of M-Mode and 2-D imaging techniques, with attention to quality and accuracy; recognition of the limitations of a Transthoracic Echocardiogram. In-depth study of normal cardiac anatomy as seen on routine Transthoracic Echocardiography, M-Mode, and 2-D views. Positioning of the patient; selection of the transducer and applying measurements and calculations. Sonographic appearance and findings of cardiac disease as detected with M-Mode and 2-D imaging. This course includes an integrated, hands-on scanning component with required competency assessment. Prerequisite: Must be enrolled in DMS, DPP, or DMP programs.

**DS247 ECHOCARDIOGRAPHY II (3.0 credits/60 clock hours)** Presentation of instrumentation and principles of Transthoracic Echocardiographic Exam Part II; including continued M-mode, 2D imaging; with the addition of basic Color/Doppler techniques; in all views. Optimization of Color/Doppler techniques with presentation of potential artifacts; attention to quality, accuracy and quantitations; recognizing limitations of Color/Doppler. Study of normal Color/Doppler displays; normal cardiac hemodynamics; basic Color/Doppler principles and instrumentation for Transthoracic Echocardiograms. Positioning of the patient; selection of the transducer and performing routine Doppler calculations. Continuing the recognition and Sonographic findings of cardiac diseases with M-Mode, 2-D and Color/Doppler techniques. This course includes an integrated, hands-on scanning component with required competency assessment. Prerequisites: Echocardiography I. Must be enrolled in DMS, DPP, or DMP programs.

**DS259 ECHOCARDIOGRAPHY SPECIAL TOPICS (3.0 credits/60 clock hours)** Presentation of Echo Color/Doppler principles and instrumentation, in-depth, for cardiac applications. Study of cardiovascular hemodynamics in diseased states. Presentation of basic Color Doppler and Spectral Doppler analysis from all Echocardiography views. Presentation of advanced Color Doppler and Spectral Doppler analysis of cardiac pressures, formulas and calculations that correlate with Cardiac Angiography data. Introduction of advanced quantification methods of complex hemodynamic cardiac diseases. Introduction to newer applications of Transesophageal Echo, Contrast Echo, Tissue Doppler, Intraoperative Echo, Stress Echo, Cardiac Resynchronization Therapy, Strain Gauge Analysis and 3-Dimensional are presented. This course includes an integrated, hands-on scanning component with required competency assessment. Prerequisite: Must be enrolled in DMS, DPP, or DMP programs.

**CP254 E-COMMERCE (3.5 credits/60 clock hours)** This course in web site design and e-commerce will cover topics relating to the design of commercial web sites. Students will utilize content management systems and shopping cart software to build a website along with understanding how to incorporate technologies such as online electronic payment methods. Prerequisite: Web Site Design.

**GE201 ECONOMICS (4.0 credits/60 clock hours)** This course is designed to introduce the student to the basic fundamentals of economics and how such knowledge can help them in understanding business decisions as well as personal decisions. We will discuss the principles of supply, demand, and market equilibrium and how these principles affect price and production in various economies along with graphs demonstrating how pricing decisions relates to these principles. We will discuss how marginal analysis is used to make business decisions. Monetary and fiscal policy will be discussed, including how fiscal policy affects the workplace. We will discuss varying degrees of competition and the subsequent effects on our economy. Students will research a current topic and apply economic principles to prepare a paper related to their field of study. Prerequisite: None.

**AP203 EDITING & PROOFREADING (1.5 credit/30 clock hours)** This course is designed to further develop the student's ability to edit and proofread accurately and to use traditional proofreading symbols correctly in order to produce business communications in mailable form. Prerequisites: Keyboarding I & Lab or Keyboarding/Word Essentials, Word Processing, and Business English I and II.

**GA102 ELECTRONIC DESIGN I (QUARK) (3.0 credits/60 clock hours)** This course expands the various elements, skills, and tools of graphic design to include the computer. Employing various page design software programs, the knowledge of traditional typography and production will be translated into the electronic environment. Techniques specific to computer generated design will be introduced. Prerequisite: None.

**GA107 ELECTRONIC DESIGN II (INDESIGN) (3.0 credits/60 clock hours)** This course expands the various elements, skills, and tools of graphic design to include the computer. Employing various page design software programs, the knowledge of traditional typography and production will be translated into the electronic environment. Techniques specific to computer generated design will be introduced. Prerequisite: Introduction to Computing.

**HI218 ELECTRONIC HEALTH RECORDS (2.0 credits/36 clock hours)** This course is a study of electronic health information systems in use in the various health care settings. The emphasis is on identifying the needs of the user, data dictionaries, hardware and software, systems design, analysis of data, and systems integration. The students will evaluate EHRs to identify strengths and weaknesses of the systems. Prerequisites: Health Data Content and Reimbursement, Healthcare Quality Improvement.

**DS265 EMBRYOLOGY FOR THE SONOGRAPHER (3.0 credits/60 clock hours)** Embryology for the Sonographer investigates the development of human organs and body systems. The class will illustrate the normal human developmental process, explore the link between normal and abnormal gross anatomic relations, and connect the developmental stages. Knowledge and comprehension of the developmental process will assist the sonographer in the recognition of normal anatomy and pathologic processes during exams. Prerequisite: Must be enrolled in DMS, DPP, or DMP programs.

**CJ110 EMERGENCY PROCEDURES (1.0 credits/24 clock hours)** This course provides an introduction to basic emergency procedures; types of emergencies that criminal justice students will encounter, types of responders, types of responses, and command and planning structure for critical incidents. Prerequisite: None.

**CJ216 EMERGENCY PROCEDURES (2.0 credits/36 clock hours)** This course provides an introduction to basic emergency procedures; types of emergencies that criminal justice students will encounter, types of responders, types of responses, and command and planning structure for critical incidents. Prerequisite: None.

**GE301 ENGINEERING ECONOMICS (1.5 credits/21 clock hours)** An introduction to engineering economics. Engineering projects must be designed to be technically correct as well as economically feasible. This course will introduce the student to cost concepts, design economics and comparing project alternatives. Prerequisite: Engineering Technology Project.

**IM602 ENGINEERING TECHNOLOGY INTERNSHIP (9.0 credits/378 clock hours)** To fulfill the requirements of the internship, the student participates throughout his/her final term in an on-the-job work-experience program which is directly related to an engineering or manufacturing area of business. Through hands-on experience under the supervision of a site supervisor, the student will have the opportunity to enhance his/her education and skills and have the opportunity to observe and participate in the interactions of personnel within an organization. Prerequisite: As per internship policy.

**IM256 ENGINEERING TECHNOLOGY PROJECT (4.0 credits/84 clock hours)** This is the capstone course for the Engineering Technology program and gives students an opportunity to test and extend their skills and knowledge. The project is assigned by the instructor. The project may be in the area of mechanical, architectural or civil engineering technology. Students work in teams, submit a final project report, and make a project presentation upon completion. Prerequisites: Machining Processes, Architectural CAD, and Civil Design.

**IM300 ENGINEERING TECHNOLOGY PROJECT (3.0 credits/84 clock hours)** This is the capstone course for the Engineering Technology program and gives students an opportunity to test and extend their skills and knowledge. The project is assigned by the instructor. The project may be in the area of mechanical, architectural or civil engineering technology. Students work in teams, submit a final project report, and make a project presentation upon completion. Prerequisites: Machining Processes, Architectural CAD, and Civil Design.

**GE238 ENGLISH COMPOSITION (2.0 credits/30 clock hours)** This capstone English course consists of short writing assignments requiring different structuring principles. This course requires knowledge of paragraph and essay writing as well as mastery of English sentence skills. Prerequisites: English I, II and III (minimum grade of C-).

**GE248 ENGLISH COMPOSITION FOR THE OFFICE (1.0 credits/30 clock hours)** This capstone English course consists of short writing assignments requiring different structuring principles. This course requires knowledge of paragraph and essay writing as well as mastery of English sentence skills. Prerequisites: Business English I, II and III (minimum grade of C-).

**CP310 ETHICAL HACKING AND DEFENSE (3.5 credits/60 clock hours)** This course prepares a student for network defense. Students will learn about network and computer attacks, footprinting, social engineering, port scanning, operating systems and vulnerabilities, and cryptography. The student will learn methods to defend against popular methods of hacking. Prerequisites: Hardware and Networking Essentials.

**LE107 FAMILY LAW FOR CRIMINAL JUSTICE (1.0 credit/24 clock hours)** This course takes students on a study of family law. The course provides a detailed overview of family law including examination of family law issues that tend to arise in the criminal justice arena such as divorce and separation, child custody and support, and protection from abuse actions. Prerequisite: None.

**MD219 FIRST AID & CPR (.5 credit/12 clock hours)** The purpose of this course is to give individuals in the workplace the knowledge and skills necessary to recognize and provide basic care for injuries, sudden illnesses, and breathing emergencies until advanced medical personnel arrive and take over. Individuals will learn the skills necessary to perform cardiopulmonary resuscitation (CPR) for victims (adult, child and infant) of sudden cardiac arrest. Prerequisite: None.

**DS101 FIRST AID & CPR-AHA (.5 credit/12 clock hours)** This course teaches CPR skills for helping victims of all ages (including doing ventilation with a barrier device, a bag-mask device, and oxygen); use of an automated external defibrillator (AED); and relief of foreign-body airway obstruction (FBAO). This course also provides the knowledge and skills necessary to recognize and provide basic care for injuries, sudden illnesses, and breathing emergencies. It's intended for participants who provide health care to patients in a variety of settings. Prerequisite: None.

**CJ109 FORENSIC SCIENCE (1.5 credit/30 clock hours)** The forensic portion of the course will examine scientific aspects of the criminal investigation. The major emphasis is placed upon the collection, analysis, preservation, and processing of physical evidence. Some of the topics to be covered include the crime scene search, fingerprints, blood analysis and DNA identification, and questioned documents. Prerequisite: None.

**GA305 FREELANCE BUSINESS DEVELOPMENT (1.5 credits/21 clock hours)** This course is taken concurrently with the internship. The focus of this course is the practice of design for communication in a business context. This course will cover a number of topics, including: personal marketing, freelance practice, working with artists and vendors, business models for design entrepreneurs, sustainability, and presentation skills. Prerequisite: Taken concurrently with the internship.

**AC119 FUNDAMENTALS OF ACCOUNTING WITH QUICKBOOKS (3.0 credits/60 clock hours)** The purpose of this course is to acquaint the student with the relationships between accounting and business, and to define basic accounting terminology. Students are introduced to the double-entry system, journals, ledgers, trial balance, end-of-period adjustments and financial statements. The student will then utilize this background in accounting with an introduction to QuickBooks Pro, a computerized accounting system. The student will have hands-on instruction in recording vendor transactions, customer transactions, inventory transactions as well as other widely used applications of a computerized accounting system. Prerequisite: None

**GA101 FUNDAMENTALS OF DESIGN (3.0 credits/60 clock hours)** This course will introduce the basic principles of design. Using a variety of materials and techniques, the creative process will be introduced and developed. By exploring design elements and relationships, the students will begin to establish a basic aesthetic sensitivity that will further be utilized in various courses throughout the Graphic Arts program. Prerequisite: None.

**GA103 FUNDAMENTALS OF DRAWING (2.0 credits/60 clock hours)** Visual awareness of expanded through detailed observation of the principles of light upon an object. These observations are then used to translate the effect of light cast on a three-dimensional form into a two-dimensional drawing. Exploring simple to highly detailed objects, the student will develop the understanding and skills to construct drawings using line, shape, and dimension. Prerequisite: None.

**AC113 FUNDAMENTALS OF INCOME TAX (3.5 credits/60 clock hours)** This course introduces the student to the current Federal and State income tax laws as they relate to the individual taxpayer. Preparation of individual tax returns and supporting schedules will be emphasized. Prerequisite: Accounting II or Business Mathematics.

**MD202 FUNDAMENTALS OF MEDICAL TRANSCRIPTION (1.5 credits/30 clock hours)** This course introduces the fundamental skills and knowledge that a student must understand in preparation for medical transcription. Included is a discussion on the profile of the medical transcriptionist, the different types of reports and their formats, and selected guidelines. Prerequisites: Word Processing, Anatomy & Physiology I and II, and Medical Terminology I and II.

**CP308 GAME PROGRAMMING WITH PYTHON (3.5 credits/60 clock hours)** This course introduces students to the Python programming language and deals with general concepts of game development and specifics that apply when using Python for game development. Prerequisite: Introduction to Programming & Logic.

**GE255 GEOMETRY FOR DESIGN (1.5 credits/24 clock hours)** Geometry for Design is designed to cover basic mathematical, algebraic and geometric concepts that are used by Graphic Design professionals. The topics that will be covered are review of order of operations, basic geometric formulas used by Graphic Design professionals, ratios, proportions, percentages, and measurement conversion. Prerequisite: None

**GA602 GRAPHIC ARTS INTERNSHIP (9.0 credits/378 clock hours)** A field internship is required to provide practical experience in a setting which is relevant to the student's course of study. Work performed during the student's internship may be utilized in developing a more cohesive portfolio upon graduation. A comprehensive final paper must be written. Prerequisite: As per internship policy.

**GA109 GRAPHIC DESIGN STUDIO I (2.5 credits/60 clock hours)** This course introduces students to graphic design as a conceptual and visual discipline. Varied projects are introduced to the student with an emphasis on solving visual problems from a wide range of topics in a variety of media. Prerequisite: Electronic Design I (Quark) or Electronic Design II (InDesign).

**GA211 GRAPHIC DESIGN STUDIO II (2.5 credits/60 clock hours)** Students in the class will work on a variety of projects for arts and educational groups, social welfare and environmental organizations, and other clients in the nonprofit sector. Projects done in the class will actually be produced—either in print or, in the case of websites, posted on-line. Students will be responsible for production preparation and supervision for course projects, which could include identities, brochures, posters, invitations, and advertising campaigns. Prerequisite: Graphic Design Studio I.

**GA302 GRAPHIC SYMBOLISM – CORPORATE (3.0 credits/60 clock hours)** This course examines the importance of graphic symbols in design. Logos and other symbolic images will be examined in classical and contemporary contexts. Graphic elements including typography, imagery, and abstract shapes will be utilized to create logo designs and other symbolic images. A large scale corporate identity package consisting of the following will be included: logo design, stationery, and collateral materials that include a variety of forms such as booklets, brochures, posters, advertising, signage, and packaging. Prerequisites: Electronic Design I (Quark) or Electronic Design II (InDesign), Typography, Computer Graphics – Illustrator

**DS224 GYNECOLOGIC ULTRASOUND (3.0 credits/60 clock hours)** Begins with anatomic relationships of the female pelvic organs as related to ultrasound imaging, comparing ultrasound images of normal and abnormal structures. Various tumors, cysts, congenital anomalies, and other pathologic conditions are covered, along with ultrasound diagnosis of these conditions. This course includes an integrated, hands-on scanning component with required competency assessment. Prerequisite: Must be enrolled in DMS, DPP, or DMP programs.

**CP119 HARDWARE (3.0 credits/60 clock hours)** This course will cover microcomputer hardware terminology, upgrade, repair, maintenance, and troubleshooting. Students will learn how to install and configure expansion cards, hard disk drives, printers and other peripheral devices. IRQs, I/O addresses, DMA channels, and conflicts will be examined. Prerequisite: None.

**H1206 HEALTH CARE BUDGETING (1.0 credit/24 clock hours)** This course consists of an overview of financial and budgeting issues and concepts and discusses the role of non-financial managers in the health care environment. The purpose of this course is to develop an understanding of financial concepts, operations, and issues such as capital and operating budget development and control, budget variance analysis, merging of clinical and financial data, and cost containment. Prerequisite: Students must have completed, or be taking concurrently, Spreadsheets.

**H109 HEALTH CARE STATISTICS (1.0 credit/24 clock hours)** The focus of this course is the presentation of descriptive and vital statistics, definitions, data collection methods, analysis and interpretation of data, accuracy of information, calculation of formulas, and methods of presenting data. Prerequisites: Health Data Content and Reimbursement and Spreadsheets.

**GE249 HEALTH CARE STATISTICS (1.0 credit/24 clock hours)** The focus of this course is the presentation of descriptive and vital statistics, definitions, data collection methods, analysis and interpretation of data, accuracy of information, calculation of formulas, and methods of presenting data. Prerequisites: Health Data Content and Reimbursement and Spreadsheets.

**HI122 HEALTH DATA CONTENT AND REIMBURSEMENT (3.0 credits/60 clock hours)** This course emphasizes the importance of the content of the health record. Topics include the preparation and use of indexes and registers, format and uses of nomenclatures and classification systems, quantitative and qualitative analysis, documentation requirements, the health record's role in reimbursement, the prospective payment systems, other reimbursement systems in health care, electronic health information systems, and transcription. Prerequisites: Anatomy & Physiology II, Medical Terminology II, and Introduction to the Health Care Field. This course must be taken prior to or concurrently with ICD Coding I.

**HI400 HEALTH INFORMATION SEMINAR (3.5 credits/60 clock hours)** This is the final course of study in the Health Information Technology program. Topics covered include current issues in the health information field, management of a health information department, professionalism, and a review of the HIM entry-level competencies and knowledge clusters for associate degree programs to prepare for the national accreditation examination. Prerequisites: Principles of Supervision and Health Records in Other Settings.

**HI208 HEALTH RECORDS IN OTHER SETTINGS (1.5 credits/30 clock hours)** This course is designed to enhance the students' knowledge of the health record in settings other than acute care hospitals. The requirements for licensure, certification, accreditation, staffing, reimbursement, and record content that apply in ambulatory care, hospice, home health, long-term care, mental health, and rehabilitation settings will be presented. Prerequisites: Healthcare Quality Improvement, ICD Coding II, CPT-4, and Health Care Statistics.

**HI221 HEALTHCARE QUALITY IMPROVEMENT (3.5 credits/60 clock hours)** This course provides a in-depth study of quality assessment, quality improvement, medical staff credentialing, utilization management and risk management. The organizations that license, accredit and certify health care organizations and their standards will be presented. Prerequisites: Health Data Content and Reimbursement and ICD Coding I.

**GE219 HUMAN RELATIONS (2.5 credits/36 clock hours)** This course is designed to be a study of interpersonal communication issues in the workplace. Specific communication skills that foster good working relationships and teamwork are practiced, such as perception checking, listening, "I" language, supportive language, and 5-part assertion messages. Other topics include gender communication differences, conflict resolution techniques, diversity in the workplace, defensiveness, non-verbal communication, and communication styles. Through case studies, role-plays, and practical application exercises, students will practice and utilize the aforementioned strategies in possible workplace scenarios. Prerequisite: None.

**GE172 HUMAN RELATIONS IN THE WORKPLACE (1.5 credits/36 clock hours)** This course is designed to be a study of interpersonal communication issues in the workplace. Specific communication skills that foster good working relationships and teamwork are practiced, such as perception checking, listening, "I" language, supportive language, and 5-part assertion messages. Other topics include gender communication differences, conflict resolution techniques, diversity in the workplace, defensiveness, non-verbal communication, and communication styles. Through case studies, role-plays, and practical application exercises, students will practice and utilize the aforementioned strategies in possible workplace scenarios. Prerequisite: None

**MG209 HUMAN RESOURCES MANAGEMENT (1.5 credits/36 clock hours)** Through readings, case studies, and lectures, the student will become familiar with various aspects of human resources. Topics will include interviewing/recruiting, performance management, regulatory/legal compliance, employee relations, communications, policy administration, and recordkeeping (payroll, personnel files, etc.). Prerequisite: None.

**CJ106 HUMAN RIGHTS ISSUES IN CRIMINAL JUSTICE (2.0 credits/36 clock hours)** This course examines the idea of human rights, its political and legal universality, and historical evolution. Major emphasis is on the concept of ethics and legal mechanisms developed to protect them within the criminal justice system. The course addresses ethical dilemmas through different stages of the criminal justice process (criminal investigation, trial, sentencing, punishment), seeking to determine if constitution, statutes, and judicial decisions establish foundation for the policy which balances conflicting interest of the law. Prerequisite: None.

**HI213 ICD CODING I (3.0 credits/60 clock hours)** This course focuses on the International Classification of Diseases and Procedure Coding Systems (ICD-10-CM and ICD-10-PCS). The course will introduce the student to the professional standards for coding and reporting of diagnostic inpatient and outpatient services and inpatient procedure services. Coding characteristics, conventions and guidelines will be applied in identifying and accurately assigning codes to diseases, conditions and procedures. Health records, manual coding methods, and coding references will be utilized in the coding process. Prerequisites: Anatomy & Physiology I and II and Medical Terminology I and II.

**HI214 ICD CODING II (3.0 credits/60 clock hours)** This course focuses on the ICD-10-CM and ICD-10-PCS classification systems. The course will further introduce the student to the professional standards for coding and reporting of diagnostic inpatient and outpatient services and inpatient procedure services. Coding characteristics, conventions and guidelines will be applied in identifying and accurately assigning codes to diseases, conditions and procedures. Health records, manual and computerized coding methods, and coding references will be utilized in the coding process. Prerequisites: ICD Coding I and Pathophysiology.

**HI219 ICD-9-CM II (3.5 credits/60 clock hours)** This course reinforces the coding skills developed in ICD-9-CM I with further emphasis on neoplasms; musculoskeletal system diseases; pregnancy, childbirth, abortion, congenital anomalies and perinatal conditions; injuries, burns, poisonings; complications of care, and E codes. The guidelines for coding diagnoses for outpatient medical records will be introduced as well. Prerequisites: ICD-9-CM I and Pathophysiology.

**HI220 ICD-10-CM/PCS (2.5 credits/48 clock hours)** This course allows the student to gain a greater knowledge of the language of coding, specifically ICD-10-CM and ICD-10-PCS coding guidelines and conventions. This course emphasizes all aspects of the coding classification system so students can apply their knowledge of coding principles and definitions. Prerequisites: ICD-9-CM I and ICD-9-CM II.

**CP238 INFORMATION TECHNOLOGY CAPSTONE PROJECT (3.0 credits/60 clock hours)** This course serves as a practicum for the IT program. As far as possible, students will be assigned an area of business and work with management and users in designing system solutions, writing (or choosing) the actual software, making hardware recommendations, designing user's guides, and (where appropriate) training users of the system. Students will document all details of the process by preparing a comprehensive, in-depth project folder. Prerequisites: Hardware, Introduction to Programming & Logic, Database, Project Management.

**CP312 INFORMATION TECHNOLOGY CAPSTONE PROJECT (5.0 credits/120 clock hours)** This course serves as the practicum for the IT program. Students will design system solutions, writing (or choosing) the actual software, making hardware recommendations, designing users' guides, and (where appropriate) training users of the system. Students will document all details of the process by preparing a comprehensive, in-depth project portfolio. Prerequisites: Database, Hardware, Project Management, Introduction to Programming & Logic.

**CP604 INFORMATION TECHNOLOGY INTERNSHIP (9.0 credits/378 clock hours)** To fulfill the requirements of the internship, the student will participate throughout his/her final term in an on-the-job, work-experience program which is directly related to a computer-oriented area of business. Through hands-on computer experience under the supervision of a computer professional, the student will have the opportunity to enhance his/her education, computer skills and personal skills as well as an opportunity to observe the interaction of personnel within an employment environment. Prerequisite: As per internship policy.

**SS210 INTEGRATED OFFICE SIMULATION (3.0 credits/60 clock hours)** This is a capstone applications course after the student has mastered the basic concepts of word processing, spreadsheet, database, and presentation software. The student will apply this knowledge through office simulations. Each student will determine what software package to use to produce the work assignments. Electronic mail will be used to receive instructions and to communicate with the instructor. Topics covered are internet research, organizing work load, scheduling with Outlook, producing spreadsheets and graphs, creating database tables and reports, preparing documents and presentations, integrating information, and working with document storage and retrieval. Prerequisites: Word Processing, Advanced Word Processing, Spreadsheets, Advanced Spreadsheets, Database, Advanced Database, Keyboarding I & Lab or Keyboarding Essentials, Keyboarding II, Keyboarding II Lab, Document Processing, Document Processing Lab, English I and II—all with a C- or better grade.

**AP301 INTEGRATED OFFICE SIMULATION (3.0 credits/60 clock hours)** This is a capstone applications course after the student has mastered the basic concepts of word processing, spreadsheet, database, and presentation software. The student will apply this knowledge through office simulations. Each student will determine what software package to use to produce the work assignments. Electronic mail will be used to receive instructions and to communicate with the instructor. Topics covered are internet research, organizing work load, scheduling with Outlook, producing spreadsheets and graphs, creating database tables and reports, preparing documents and presentations, integrating information, and working with document storage and retrieval. Prerequisites: Word Processing, Advanced Word Processing, Spreadsheets, Advanced Spreadsheets, Database, Advanced Database, Keyboarding I & Lab or Keyboarding Essentials or Keyboarding/Word Essentials, Keyboarding II, Keyboarding II Lab, Document Processing, Document Processing Lab, English I and II or Business English I and II—all with a C- or better grade.

**AC211 INTERMEDIATE ACCOUNTING I (3.5 credits/60 clock hours)** Intermediate Accounting I is an in-depth study of financial accounting, concentrating on the accounting profession as a whole. A more detailed study is made of the income statement, balance sheet, and cash flow statement along with current assets including cash, receivables, and inventory. Prerequisite: Accounting III with a minimum grade of C-.

**AC301 INTERMEDIATE ACCOUNTING II (3.5 credits/60 clock hours)** Intermediate Accounting II is a continuation of an in-depth study of financial accounting, concentrating on accounting for non-current assets, debt financing, stockholder's equity, and financial statement analysis. Prerequisite: Intermediate Accounting I with a minimum grade of C-.

**MK200 INTERNET MARKETING (2.0 credits/36 clock hours)** Introduction to e-business functions using the Internet. Topics include search engine marketing (SEM), search engine optimization (SEO), e-business, social networking, blogging, discussion groups, e-mail, the different functions and applications of the Internet, and how interactive technologies have changed business and consumer practices. Emphasis on the effect of the use of interactive technology on a company's existing marketing mix and current and potential uses of the Internet for marketing tactics and strategies. Prerequisite: Marketing.

**MK202 INTERNET MARKETING (1.5 credits/36 clock hours)** Introduction to e-business functions using the Internet. Topics include search engine marketing (SEM), search engine optimization (SEO), e-business, social networking, blogging, discussion groups, e-mail, the different functions and applications of the Internet, and how interactive technologies have changed business and consumer practices. Emphasis on the effect of the use of interactive technology on a company's existing marketing mix and current and potential uses of the Internet for marketing tactics and strategies. Prerequisite: Marketing.

**CP264 INTERNET SECURITY (3.5 credits/60 clock hours)** This course will introduce students to the world of Internet Security. Upon completion of the course students will have knowledge of the areas of general security concepts, communication security, infrastructure security, basics of cryptography and operational/organizational security. Prerequisites: Hardware and Networking Essentials.

**AC120 INTRODUCTION TO ACCOUNTING (3.5 credits/60 clock hours)** The purpose of this course is to acquaint the student with the relationships between accounting and business and to define basic accounting terminology. Accounting is introduced as the common financial language used in business organizations. The course emphasizes the importance of following accepted accounting principles so that a business' financial position can be appropriately evaluated. In addition, students are introduced to the double-entry system, journals, ledgers, trial balances, worksheets, preparation of the income statement, statement of owner's equity, and balance sheet; adjusting, and closing entries; accounting for merchandising operations, classified financial statement formats, and ratio analysis. The sole proprietorship business entity is used throughout this course as it pertains to service-oriented and merchandising operations. A simulation of accounting for a service business is also used for reinforcement purposes. Prerequisite: None

**MG110 INTRODUCTION TO BUSINESS (3.0 credits/60 clock hours)** This course is designed to prepare the student to interact with the business world in a knowledgeable manner whether he/she owns the business, works for the business, or just deals with the business as a customer. The course will cover areas including forms of business ownership; the process of management and empowerment; the global dimensions of business; working in teams; promotional strategy; and labor/management relations. Prerequisite: None.

**GE173 INTRODUCTION TO BUSINESS MATH (2.0 credits/36 clock hours)** This course is designed to refresh the student's knowledge of math fundamentals and to apply these fundamentals in business and everyday life. The concepts covered are a review of decimals and fractions, banking, percentages, payroll, cash and trade discounts, and related areas. Prerequisite: None

**GE174 INTRODUCTION TO BUSINESS STATISTICS (2.5 credits/48 clock hours)** This introductory course is designed to give the students a basic knowledge of statistics used in business. Although most students do not plan to become statisticians, a working knowledge of descriptive and inferential statistics is required for most entry-level positions. The following areas are covered: collection of data, introduction to sampling concepts, deceptive statistics, frequency distributions, graphing, cross tabulations, measures of central tendency, measures of dispersion, and an introduction of probability concepts, hypothesis testing with one sample and related areas. Prerequisite: Applied Algebra.

**IM116 INTRODUCTION TO CAD (3.0 credits/60 clock hours)** An introduction to computer-assisted drafting systems using AutoCAD. This course will present the basic commands and techniques required to create, annotate, revise, and print technical drawings using a computer. The course material will be reinforced through hands-on examples and projects. Prerequisites: Applied Algebra, Technical Drawing, Introduction to Computing.

**DS250 INTRODUCTION TO CARDIOVASCULAR TECHNOLOGY (2.5 credits/36 clock hours)** Presentation of a broad spectrum of invasive and noninvasive diagnostic procedures used in the assessment of heart disease. Prerequisite: Must be enrolled in DMS, DPP, or DMP programs.

**GA108 INTRODUCTION TO COMPUTER GRAPHICS (PHOTOSHOP) (3.0 credits/60 clock hours)** This course is based on the software Adobe Photoshop. Students will learn to scan photographs and manipulate them using Photoshop tool box and special effects filters. They will learn the basics in color correcting photos; mask image using channels; create duotone, tri-tone, and quad tone images; and prepare photos for use in printing and on the web. Prerequisite: Introduction to Computing or Computer Fundamentals.

**CP101 INTRODUCTION TO COMPUTING (1.5 credits/30 clock hours)** This accelerated course is designed to provide students with a solid foundation in using personal computers and current operating systems. Prerequisite: None.

**CJ117 INTRODUCTION TO CORRECTIONS (3.5 credits/60 clock hours)** The course is an overview of the corrections field: courts, sentencing, adult institutions, probation, and parole are included as well as the role of the criminal justice professional. The various types and forms of community corrections will also be analyzed. The course will be an active and interactive learning experience and in addition to lectures will include a tour of a correctional facility and special presentations by experienced corrections professionals. The student will build a framework for understanding sentencing and correctional practices that will benefit the student regardless of career choices in the criminal justice system. Prerequisite: None.

**CJ116 INTRODUCTION TO CRIMINAL JUSTICE (3.5 credits/60 clock hours)** This course is an introductory survey of the American criminal justice system. The class will include discussions of the police, defense and prosecuting attorneys, courts, institutional corrections, community-based corrections, and the juvenile justice system. The definition and the measurement of crime, and various efforts to explain the causes of crime are covered. General issues for consideration include discretion in the administration of criminal justice; due process; and contemporary changes in the American criminal justice system. Prerequisite: None.

**CJ105 INTRODUCTION TO CRIMINAL LAW (3.0 credits/60 clock hours)** This course takes students on a study of the basic purposes of the criminal law, essential elements of criminal liability, criminal defenses and substantive criminal laws. Students explore issues of criminal *mens rea*, liability for inchoate offenses and justification principles. Homicide and other offenses against the person are discussed in detail. Prerequisite: None.

**LE102 INTRODUCTION TO CRIMINAL LAW (3.5 credits/60 clock hours)** This course takes students on a study of the basic purposes of the criminal law, essential elements of criminal liability, criminal defenses and substantive criminal laws. Students explore issues of criminal *mens rea*, liability for inchoate offenses and justification principles. Homicide and other offenses against the person are discussed in detail. Prerequisite: None.

**IM117 INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS (2.0 credit/36 clock hours)** GIS (Geographic Information Systems) is a computer-based tool that uses spatial (geographic) data to analyze and solve real-world problems. This course is designed to introduce the student to the basic principles and techniques of GIS. The lab material will emphasize GIS data collection, entry, storage, analysis, and output using ArcGIS. Prerequisites: Applied Algebra, Applied Algebra II, Technical Drawing and Introduction to CAD.

**HI202 INTRODUCTION TO THE HEALTH CARE FIELD (3.5 credits/60 clock hours)** This course introduces the student to the healthcare delivery system and the professionals involved in healthcare. Topics include the history of healthcare; the organizations that set standards or regulations in healthcare; the types of settings in which healthcare is rendered; the organization of hospitals and their medical staffs; the content, uses and format of the patient record; methods of storage, retention and retrieval of patient records; and medical staff committees. Prerequisites: Anatomy & Physiology I and Medical Terminology I.

**CJ102 INTRODUCTION TO LAW ENFORCEMENT (2.0 credits/36 clock hours)** This course provides an understanding of the role and function of policing in a modern democratic society. It examines contemporary American policing in light of its roots, and compares it to policing in other countries. Discussions are focused on a wide spectrum of law enforcement agencies, identifying the most important characteristics of city, state, and federal police work. Particular attention is paid to current issues and trends in law enforcement, including race, index crimes, drugs, disorder, conflict, and riots. Prerequisite: None.

**LE110 INTRODUCTION TO THE LAW OF TORTS (3.5 credits/60 clock hours)** This course is designed to provide students an overview of tort law and the civil legal system. Topics to be covered include: negligence and its defenses; special negligence actions, such as premises liability, vicarious liability, product liability and strict liability; and intentional torts. Prerequisite: None.

**GE139 INTRODUCTION TO LITERATURE (3.5 credits/60 clock hours)** This course is an introduction to the study of literary forms, including short story, the novel, and drama. Students will read texts from a wide variety of genres and historical periods. Students will also learn vocabulary and techniques of literary analysis. Prerequisite: None.

**DS237 INTRODUCTION TO MEDICAL IMAGING (3.5 credits/60 clock hours)** Introduction to various diagnostic imaging modalities in use today. Includes Radiography, Computed Tomography, Magnetic Resonance Imaging, Nuclear Medicine and Ultrasound. Includes several site visits to medical imaging facilities. Prerequisite: Must be enrolled in DMS, DPP, or DMP programs.

**CP122 INTRODUCTION TO OPERATING SYSTEMS (1.5 credits/36 clock hours)** This introductory course is designed to provide students a fundamental understanding of operating systems. The course covers topics such as: client operating systems, server operating systems, Windows operating systems, Linux operating systems, Macintosh operating systems, current and past operating systems, file management, installation, and virtual machines. Prerequisite: None.

**CP121 INTRODUCTION TO PROGRAMMING & LOGIC (3.5 credits/60 clock hours)** This introductory course is designed to give students an understanding of the basic methods and concepts of problem-solving and applying them to a programming language. The course will focus on logic and critical thinking as it pertains to the problem-solving process. The student will be introduced to standard design tools, such as flowcharts and the UML. Prerequisite: None.

**GE236 INTRODUCTION TO PSYCHOLOGY (2.5 credits/36 clock hours)** This course is an overview of basic psychological principles and concepts. Students will be exposed to major theoretical perspectives in psychology and will explore methods and findings based in scientific research. Emphasis will be placed on the practical use of these concepts as they apply to the student's life and particular career. Topics of study include learning, memory, thinking, and intelligence; motivation, emotion, personality, stress and social psychology. Prerequisite: None.

**GE148 INTRODUCTION TO SOCIOLOGY (1.5 credit/24 clock hours)** In this survey course, students are encouraged to think about society critically, by examining such topics as culture, socialization, social interaction, and social change. Included is the study of sociological perspectives, sociological imagination, and sociological research. Because this course is for legal assistant students, the learning focuses on the sociological issues of this discipline. The legal assistant students study the legal issues involved in the disparity of income, in gender and racial inequality, and in health and

aging. They also are introduced to the sociological factors behind crime and deviance and the effect of the media on the criminal justice and legal communities. Prerequisite: None

**GE163 INTRODUCTION TO STATISTICS (2.5 credits/48 clock hours)** This introductory course is designed to give the students a basic knowledge of statistics used in business. Although most students do not plan to become statisticians, a working knowledge of descriptive and inferential statistics is required for most entry-level positions. The following areas are covered: collection of data, introduction to sampling concepts, deceptive statistics, frequency distributions, graphing, cross tabulations, measures of central tendency, measures of dispersion, and an introduction of probability concepts, hypothesis testing with one sample and related areas. Prerequisite: Algebra.

**GE176 INTRODUCTION TO STATISTICS FOR CRIMINAL JUSTICE (2.0 credits/36 clock hours)** Introduction to Statistics for Criminal Justice is designed to review basic mathematical concepts and cover a basic knowledge of statistics used in criminal justice research. The topics that will be covered are order of operations, evaluating formulas, percentages, frequency distributions, graphing, cross tabulations, central tendencies, and dispersion. Prerequisite: None

**CJ114 INTRODUCTION TO VICTIMOLOGY (3.0 credits/60 clock hours)** This course focuses on the criminal justice system's treatment of crime victims, victim programs and services, and the impact of victimization on individuals and communities. The course will discuss why victims have been "rediscovered" recently, why they often do not report crimes to the police, how some victims might share responsibility for the crimes with the offenders, how they can be repaid for their losses through offender restitution and government compensation; and what new services are available to help victims prevent crime and survive attacks. Prerequisite: None.

**CP311 JAVA PROGRAMMING (3.5 credits/60 clock hours)** This course in Java will teach students the fundamentals of Java including object oriented programming. Students will follow the program development life cycle to create programs that reinforce the topics covered. Prerequisite: Introduction to Programming & Logic.

**CP251 JAVASCRIPT (3.5 credits/60 clock hours)** This course will introduce students to the concept of client side scripting using languages such as JavaScript. Prerequisites: Web Site Design and Introduction to Programming & Logic.

**CD204 JOB SEARCH SKILLS (1.0 credit/24 clock hours)** This course prepares students for the job search process. Topics include skill identification, resume development, cover letters and thank-you letters, interviewing skills, and job-seeking methods. Students will conduct an informational interview with a professional in their field of interest, role-play a mock interview in the classroom to practice interviewing skills, and start to develop a list of prospective employers for which they would like to work. Prerequisite: None.

**CJ214 JUVENILE DELINQUENCY (3.0 credits/60 clock hours)** This course involves an intensive analysis of delinquent behavior by juveniles, with special emphasis upon the unique facets of delinquency (types of origins) which differentiate it from other forms of criminal behavior. It examines the legal rights, treatment, and rehabilitation of juveniles who have been adjudicated "delinquent". Special attention is given to the problems inherent in the police handling of juveniles and the functions of juvenile courts. Prerequisite: None.

**CJ208 JUVENILE DELINQUENCY (2.0 credits/36 clock hours)** This course involves an intensive analysis of delinquent behavior by juveniles, with special emphasis upon the unique facets of delinquency (types of origins) which differentiate it from other forms of criminal behavior. It examines the legal rights, treatment, and rehabilitation of juveniles who have been adjudicated "delinquent". Special attention is given to the problems inherent in the police handling of juveniles and the functions of juvenile courts. Prerequisite: None.

**AP105 KEYBOARDING/WORD ESSENTIALS (1.5 credits/30 clock hours)** This course is designed to teach the students the correct keyboarding techniques and to help the student operate the letters, numbers, symbols and number pad by touch. Word features will be taught to introduce letters, memos, and simple reports. Prerequisite: None.

**AP101 KEYBOARDING I & LAB (3.0 credits/60 clock hours)** This course is designed to teach the students the correct keyboarding techniques and to help the student operate the letters, numbers, symbols and number pad by touch. Word features will be taught to introduce letters, memos, and simple reports. This class will also provide time for students to increase their speed and accuracy through drill work and timed writings. Prerequisite: None.

**AP102 KEYBOARDING II (3.0 credits/56 clock hours)** The Keyboarding II class will reinforce formatting of letters, memorandums and reports, itineraries, agenda, minutes, press releases, and further develop speed and accuracy on timed writings. Production tests will be taken to develop speed and accuracy on business documents. Prerequisite: Keyboarding I & Lab or Keyboarding/Word Essentials with a grade of C- or better.

**AP103 KEYBOARDING II LAB (1.0 credit/28 clock hours)** This course is designed to build speed and accuracy by providing extra time to work on drill work and timed writings. The student's updated keyboarding speed will be recorded within the student's personal file. Prerequisite: Keyboarding I & Lab or Keyboarding/Word Essentials with a grade of C- or better.

**AP104 KEYBOARDING SPEEDBUILDING LAB (0.5 credits/24 clock hours)** This lab is designed to provide the opportunity for students to increase keyboarding speed by using skill building software. The student's updated keyboarding speed will be recorded within the student's personal file. Prerequisite: Keyboarding I & Lab or Keyboarding/Word Essentials.

**MA105 LABORATORY PROCEDURES I (3.0 credits/60 clock hours)** This course teaches the student about collecting specimens and performing a variety of laboratory procedures. The student learns to properly perform procedures such as medication administration and dosage calculations, injections, and urinalysis. Prerequisites: Clinical Skills I and II, and Pharmacology.

**MA205 LABORATORY PROCEDURES II (3.0 credits/60 clock hours)** This course provides additional information about laboratory procedures. Emphasis is placed on blood collection and testing. Prerequisite: Laboratory Procedures I.

**DS309 LAW AND ETHICS IN MEDICAL IMAGING (2.5 credits/36 clock hours)** Various medical/legal and medical/ethical situations will be presented and discussed. Medical malpractice and negligence will be highlighted with multiple court cases and possible scenarios researched and reviewed. Ethical and legal standards of the Sonography professional will be presented. Discussion of how to professionally relate to multiple ethnicities will be conducted. The legal responsibility of sonographers when dealing with documentation, record keeping, privacy and confidentiality will be introduced. Other topics to be covered include patient rights, labor law, employment discrimination laws, risk management, and safety regulations and practices. Prerequisite: Must be enrolled in DMS, DPP, or DMP programs.

**LE602 LEGAL ASSISTANT INTERNSHIP (9.0 credits/378 clock hours)** To fulfill the requirements of the internship, the student will participate throughout his/her final term in a work-experience program which directly relates to the administrative/legal office. Under the supervision of an



administrator, office manager, or computer technician the student will have the opportunity to enhance his/her education, personal skills, computer skills, and observe the interaction of personnel within an office environment. Prerequisite: As per internship policy.

**LE300 LEGAL RESEARCH AND WRITING (1.5 credits/21 clock hours)** This course teaches students the basics of legal research, writing and analysis. The course will examine the various sources of the law and the most used reference books and materials. There will be an emphasis on citation form and citation checking methods. Student will begin to develop issue spotting skills. Students will spend time in a law library performing assignments. Students will prepare a case brief and a memorandum of law. Students will be exposed to computer assisted and Internet legal research. This may be by means of demonstration. Hands-on experience with computer assisted legal research (CALR) may be provided if resources permit  
Prerequisites: Introduction to Law and Legal Terminology.

**IM218 MACHINING PROCESSES (3.0 credits/48 clock hours)** A study of machine tools, tool room safety, measurement systems, bench and hand tools, fasteners, and carbide tool technology. The students learn how to calculate feed rates and spindle speeds for proper machine tool operation. In addition, students select the proper tooling for all types of machining operations. Prerequisite: Geometry & Trigonometry.

**IM252 MACHINING PROCESSES (2.5 credits/48 clock hours)** A study of machine tools, tool room safety, measurement systems, bench and hand tools, fasteners, and carbide tool technology. The students learn how to calculate feed rates and spindle speeds for proper machine tool operation. In addition, students select the proper tooling for all types of machining operations. Prerequisite: Applied Geometry & Trigonometry or Geometry & Trigonometry.

**IM219 MACHINING PROCESSES LAB (0.5 credits/24 clock hours)** A study of machine tools, tool room safety, measurement systems, bench and hand tools, fasteners, and carbide tool technology. The students spend lab time learning how to successfully operate a horizontal band saw, mill, lathe, and drill press to produce simple parts. The students learn proper work-holding methods and tool selection. Prerequisites: Applied Geometry & Trigonometry or Geometry & Trigonometry. Taken concurrently with Machining Processes.

**MG103 MANAGEMENT I (3.0 credits/60 clock hours)** The purpose of this course is to acquaint the students with the basics of management, including basic management terminology. Concepts of management are explored from a historical and practical perspective. The four functions of management—planning, organizing, leading, and controlling—are defined. Managerial planning is examined and qualitative and quantitative planning techniques are introduced. Organizational design and structure is analyzed to determine its impact on goal attainment. Prerequisite: None.

**MG104 MANAGEMENT II (3.0 credits/60 clock hours)** Management II expands on principles introduced in Management I. This course begins by examining the role of the manager as a supervisor. Techniques of motivation and human resource management are explored. Total Quality Management and the role of the manager in the control function are defined. Methods for creating control systems including inventory control, budget creation, and quality management are analyzed. Prerequisite: None.

**MG109 MANAGEMENT & SUPERVISION (3.5 credits/60 clock hours)** Concepts of management are explored from a historical and a practical perspective. The four functions of management (planning, organizing, leading and controlling) are examined. Organizational design and structure are analyzed to determine the impact on goal attainment. The management hierarchy is studied and special emphasis is placed on the skills required for effective supervision. Prerequisite: None.

**AC216 MANAGERIAL ACCOUNTING WITH QUICKBOOKS (3.0 credits/60 clock hours)** Managerial Accounting with QuickBooks begins with an emphasis on the use of accounting data by internal managers of a business. The course highlights the difference between financial and managerial accounting and the methods of preparing comprehensive budgets. Topics covered include purchase budgets, cash budgets, and budgeted income statements and balance sheets. The student will then utilize his/her background in accounting with an introduction to QuickBooks Pro, a computerized accounting program. The student will have hands-on instruction in recording vendor transactions, customer transactions, inventory transactions, adjusting entries, and new company set-up. Prerequisite: Accounting I.

**AC302 MANAGERIAL ACCOUNTING WITH QUICKBOOKS (3.5 credits/60 clock hours)** Managerial Accounting with QuickBooks begins with an emphasis on the use of accounting data by internal managers of a business. The course highlights the difference between financial and managerial accounting and the methods of preparing comprehensive budgets. Topics covered include purchase budgets, cash budgets, and budgeted income statements and balance sheets. The student will then utilize his/her background in accounting with an introduction to QuickBooks Pro, a computerized accounting program. The student will have hands-on instruction in recording vendor transactions, customer transactions, inventory transactions, adjusting entries, and new company set-up. Prerequisite: Accounting I.

**MK213 MARKET RESEARCH & STATISTICS (2.5 credits/60 clock hours)** A project approach to marketing research will be presented. Actual hands-on experience in the area of collecting, analyzing and using marketing data will be stressed along with information on the uses of marketing research. Descriptive and inferential statistics as they apply to marketing research and the business world will be explored. Emphasis will be placed on studying measures of central tendency, measures of variability, probability, and sampling. Prerequisites: Marketing and Algebra or Applied Algebra.

**MK103 MARKETING (3.0 credits/60 clock hours)** An introduction to the principles of marketing. Through readings, case studies and lecture, the student will become familiar with consumer behavior as well as the 4 P's (price, promotion, place and product). The marketing of services and non-business situations will also be discussed. Prerequisite: None.

**IM208 MATERIALS SCIENCE (3.5 credits/60 clock hours)** This course introduces students to materials used in the civil engineering field and in manufacturing. These materials include metals, plastics, concrete, soils, and wood. Specific areas of study include structure, properties, and testing of materials. Prerequisite: Applied Algebra

**GE177 MATHEMATICS FOR HEALTH CARE PROFESSIONALS (3.0 credits/60 clock hours)** Mathematics for Health Care Professionals is designed to cover basic mathematical and algebraic concepts used by health care professionals in their career. The topics that will be covered are review of the numerical systems, decimals and fractions, order of operations evaluating algebraic expressions, solving equations and formulas, ratios, proportions and percentages, 24-hour clock, Roman numeral system, measurement conversion and medication dosage calculations. Prerequisite: None

**IM225 MECHANICAL CAD (3.0 credits/60 clock hours)** An intermediate course of 2D drafting using AutoCAD. This course will present advanced commands and techniques to create, annotate, revise and print technical drawings. This course will build on the first CAD class to allow the student to become more proficient with AutoCAD. The course material will be reinforced through hands-on examples and projects. Prerequisite: Introduction to CAD.

**IM250 MECHANICAL DESIGN (3.0 credits/60 clock hours)** Students learn to identify, describe, assemble, and operate machine elements commonly found in mechanical devices. The machine elements covered include: belt and chain drives, gears, shafts, keys, bearings, cams, springs, and linkages.

Also included are basic analysis and design exercises to select elements that meet specifications. Prerequisites: Machining Processes and Applied Algebra or Algebra.

**IM231 MECHANICAL DESIGN (3.5 credits/60 clock hours)** Students learn to identify, describe, assemble, and operate machine elements commonly found in mechanical devices. The machine elements covered include: belt and chain drives, gears, shafts, keys, bearings, cams, springs, and linkages. Also included are basic analysis and design exercises to select elements that meet specifications. Prerequisites: Machining Processes and Algebra.

**GA111 MEDIA AND DESIGN STUDY (3.0 credits/60 clock hours)** This course will provide the students with an in-depth study and history of graphic design elements, related arenas (animation art, design, multi-media/web), and how they have impacted our society. Furthermore it will focus on assisting the student in preparing a career path and skills necessary for success. Regional differences and employment types are also discussed. Prerequisites: Electronic Design I (Quark) or Electronic Design II (InDesign), and Introduction to Computer Graphics (Photoshop).

**MD235 MEDICAL ADMINISTRATIVE SKILLS I (2.5 credits/60 clock hours)** This course introduces students to common administrative procedures performed in both small and large medical practice via a Practice Management System. Students will learn to input patient information, bill insurance companies and schedule appointments. The student will be able to run common reports associated with the medical practice, including day sheets, patient ledgers, and other financial reports that are important to the day-by-day financial operations of the medical practice. Prerequisites: Word Processing and Medical Terminology I and II.

**MD237 MEDICAL ADMINISTRATIVE SKILLS I (3.0 credits/60 clock hours)** This course introduces students to common administrative procedures performed in both small and large medical practice via a Practice Management System. Students will learn to input patient information, bill insurance companies and schedule appointments. The student will be able to run common reports associated with the medical practice, including day sheets, patient ledgers, and other financial reports that are important to the day-by-day financial operations of the medical practice. Prerequisites: Word Processing and Medical Terminology I and II.

**MD236 MEDICAL ADMINISTRATIVE SKILLS II (3.0 credits/60 clock hours)** This course is designed to build important skills for handling computerized billing tasks in medical offices. Computerized billing tasks are completed with a patient billing software program, using a medical office setting and related patient data. Prerequisites: Medical Administrative Skills I and taken concurrently with Medical Insurance Forms.

**MD301 MEDICAL ADMINISTRATIVE SKILLS II (2.5 credits/60 clock hours)** This course is designed to build important skills for handling computerized billing tasks in medical offices. Computerized billing tasks are completed with a patient billing software program, using a medical office setting and related patient data. Prerequisites: Medical Administrative Skills I and taken concurrently with Medical Insurance Forms.

**MA602 MEDICAL ASSISTANT INTERNSHIP (9.0 credits/378 clock hours)** The student will work in a professional atmosphere under the supervision of experienced professionals to fulfill the requirements of the internship. The experience will provide the student with an opportunity to enhance his/her education, personal skills, and observe the interaction of personnel within an office setting. Prerequisite: As per internship policy.

**MD207 MEDICAL INSURANCE FORMS (3.0 credits/60 clock hours)** This course introduces the student to medical insurance and handling of claims (CMS-1500 and UB-04) for various types of third-party carriers including managed care, Medicare, Medicaid (Pennsylvania) and TRICARE. The guidelines for coding diagnoses for outpatient services will be presented and coding of professional services utilizing CPT will be further emphasized. Medical abbreviations and symbols will also be presented. Prerequisites: ICD Coding I and II and CPT-4

**MD214 MEDICAL INSURANCE FORMS (3.5 credits/60 clock hours)** This course introduces the student to medical insurance and handling of claims (CMS-1500 and UB-04) for various types of third-party carriers including managed care, Medicare, Medicaid (Pennsylvania) and TRICARE. The guidelines for coding diagnoses for outpatient services will be presented and coding of professional services utilizing CPT will be further emphasized. Medical abbreviations and symbols will also be presented. Prerequisites: ICD Coding I and II and CPT-4

**HI205 MEDICAL LEGAL ASPECTS (2.0 credits/36 clock hours)** This course is the study of basic concepts, terminology, and principles of law and their application to the health care field and health information departments. Legal issues dealing with confidentiality of health information, release of health information, consent forms, liability of health care providers, HIPAA regulations, and other current issues will be presented. Prerequisite: Introduction to the Health Care Field.

**MD603 MEDICAL OFFICE SPECIALIST INTERNSHIP (9.0 credits/378 clock hours)** The student will work in a professional medical atmosphere under the supervision of experienced professionals to fulfill the requirements of the internship. The experience will provide the student with an opportunity to enhance his/her education, personal skills, and observe the interaction of personnel within an office environment. Prerequisite: As per internship policy.

**MA109 MEDICAL SEMINAR (3.0 credits/60 clock hours)** This course is designed to implement knowledge and skills learned throughout the program. The emphasis is to assist the transition of students to employee. Role play/simulations of day-to-day medical office encounters are incorporated. Prerequisites: Anatomy & Physiology I and II and Anatomy & Physiology Lab I and II, Medical Terminology I and II, Introduction to the Healthcare Field, Clinical Skills I and II, Fundamentals of Medical Transcription, Pathophysiology, ICD-9-CM I and II or ICD Coding I and II, CPT-4, Medical Administrative Skills I and II, Medical Insurance Forms, Computerized Patient Billing, and Laboratory Procedures I. Taken Concurrently with Clinical Skills III, Laboratory Procedures II, Medical Legal Aspects, and First Aid & CPR-AHA.

**MA110 MEDICAL SEMINAR (3.5 credits/60 clock hours)** This course is designed to implement knowledge and skills learned throughout the program. The emphasis is to assist the transition of students to employee. Role play/simulations of day-to-day medical office encounters are incorporated. Prerequisites: Anatomy & Physiology I and II and Anatomy & Physiology Lab I and II, Medical Terminology I and II, Introduction to the Healthcare Field, Clinical Skills I and II, Fundamentals of Medical Transcription, Pathophysiology, ICD-9-CM I and II or ICD Coding I and II, CPT-4, Medical Administrative Skills I and II, Medical Insurance Forms, Computerized Patient Billing, and Laboratory Procedures I. Taken Concurrently with Clinical Skills III, Laboratory Procedures II, Medical Legal Aspects, and First Aid & CPR-AHA.

**MA301 MEDICAL SEMINAR (2.0 credits/60 clock hours)** This course is designed to implement knowledge and skills learned throughout the program. The emphasis is to assist the transition of students to employee. Role play/simulations of day-to-day medical office encounters are incorporated. Prerequisites: Anatomy & Physiology I and II and Anatomy & Physiology Lab I and II, Medical Terminology I and II, Introduction to the Healthcare Field, Clinical Skills I and II, Fundamentals of Medical Transcription, Pathophysiology, ICD Coding I and II, CPT-4, Medical Administrative Skills I and II, Medical Insurance Forms, Practice Management & EHR, Clinical Skills III, and Laboratory Procedures I. Taken Concurrently with Laboratory Procedures II, Medical Legal Aspects, and First Aid & CPR-AHA.

**MD114 MEDICAL TERMINOLOGY I (2.0 credits/36 clock hours)** Presentation of medical terms, including medical prefixes, root words/combining forms, suffixes, abbreviations and diagnostic tests as they correlate with specific body systems presented in Anatomy & Physiology I. Prerequisite: None, but taken concurrently with Anatomy & Physiology I.

**MD105 MEDICAL TERMINOLOGY II (2.0 credits/36 clock hours)** Presentation of medical terms, including medical prefixes, root words/combining forms, suffixes, abbreviations and diagnostic tests as they correlate with specific body systems presented in Anatomy & Physiology II. Prerequisites: Anatomy & Physiology I and Medical Terminology I. Taken concurrently with Anatomy & Physiology II.

**MD225 MEDICAL TRANSCRIPTION (2.5 credits/60 clock hours)** The student is further introduced to acute care/inpatient work types such as history and physical exams, operative reports, discharge summaries, consultations, and ancillary department reports. Transcription of advanced healthcare dictation using advanced proofreading, editing, and research skills, while meeting progressively demanding accuracy and productivity standards is the focus. Prerequisites: Fundamentals of Medical Transcription and Medical Transcription Skillbuilding with a minimum of B- in both courses and 55 wpm.

**MD203 MEDICAL TRANSCRIPTION SKILLBUILDING (2.5 credits/60 clock hours)** The student is further introduced to the preparation of medical reports: history and physical exams, operative reports, discharge summaries, consultations, and ancillary department reports. The medical reports are dictated and must be transcribed by the student using proper format and correct punctuation and spelling, helping students to develop their editing and proofreading skills. Prerequisite: Fundamentals of Medical Transcription.

**MD238 MEDICAL TRANSCRIPTION SKILLBUILDING (2.0 credits/60 clock hours)** The student is further introduced to the preparation of medical reports: history and physical exams, operative reports, discharge summaries, consultations, and ancillary department reports. The medical reports are dictated and must be transcribed by the student using proper format and correct punctuation and spelling, helping students to develop their editing and proofreading skills. Prerequisite: Fundamentals of Medical Transcription.

**CP257 MICROCOMPUTER SYSTEMS MANAGEMENT (3.5 credits/60 clock hours)** This course covers material pertaining to microcomputer systems and networks. The emphasis is on how computers are networked together and how to design, use and troubleshoot networks. Prerequisite: Computer Fundamentals, Introduction to Computing, Introduction to Computer Operating Systems, or Introduction to Operating Systems.

**CP212 MICROSOFT OFFICE (3.0 credits/60 clock hours)** The current version of MS Office is an integrated suite of applications providing word processing, spreadsheet capabilities, presentation graphics, and database management. This course will acquaint the student with a broad range of tools and techniques for each application, as well as an understanding of how information is shared between applications. Prerequisite: Computer Fundamentals, Introduction to Computing, Introduction to Computer Operating Systems or Introduction to Operating Systems.

**CP252 MICROSOFT SERVER OPERATING SYSTEM (3.5 credits/60 clock hours)** This course in server operating systems will cover topics essential to the installation, configuration, and administration of a current Microsoft Windows server operating system. Prerequisite: Networking Essentials.

**MD330 MOS CAPSTONE PROJECT (1.0 credit/30 clock hours)** This is the capstone course for the Medical Office Specialist program and gives students an opportunity to showcase their knowledge and skills. The students utilize administrative medical office procedures and duties as they develop their own procedures manual. A comprehensive procedures manual is written and presented. Prerequisites: Introduction to the Healthcare Field, ICD Coding I & II, Health Data Content and Reimbursement, Medical Transcription Skillbuilding, CPT-4, Microsoft Office, and Medical Administrative Skills I. Taken concurrently with Medical Administrative Skills II, Medical Insurance Forms, Practice Management & EHR or Computerized Patient Billing or Medical Transcription.

**CP242 .NET FRAMEWORK (3.5 credits/60 clock hours)** This course expands upon the objectives learned in the C# Programming course and covers basics of ASP.NET, C#, and SQL Server along with advanced topics in object-oriented programming. The students will build database-driven applications that incorporate authentication and security. Prerequisite: C# Programming.

**CP218 NETWORKING ESSENTIALS (3.0 credits/60 clock hours)** This course in Networking Essentials will familiarize students with networking concepts, terminology, theory, design, and implementation. Topics will include network topologies, components, purposes, and administration. Prerequisite: None.

**DS218 OBSTETRIC ULTRASOUND (3.0 credits/60 clock hours)** Presents an in-depth study of ultrasound evaluation of the pregnant uterus in the first, second, and third trimesters. Begins with ultrasound diagnosis of pregnancy, ectopic pregnancy, abnormalities in early gestation, miscarriage, blighted ovum, and moving on to ultrasound dating of pregnancy, fetal anomalies, general malformations and syndromes, placental development, placental abnormalities, placental abruptio, and multiple pregnancy. Also includes discussion on infertility, genetic testing, and determination of fetal sex. This course includes an integrated, hands-on scanning component with required competency assessment. Prerequisite: Must be enrolled in DMS, DPP, or DMP programs.

**DS264 OB AND GYN ULTRASOUND II (3.0 credits/60 clock hours)** Sonographic description and recognition of multiple fetal syndromes, genetic malformations and anomalies will be introduced, e.g. Triploidy, Turner Syndrome, VACTERL Sequence, etc. High-Risk pregnancies including, but not limited to twin pregnancies, gestational diabetes, and pre-eclampsia will be discussed and reviewed. Development and performance of ultrasound exams, (e.g., Biophysical Profiles, First Trimester Screening, Second Trimester Anatomical Survey, and Amniotic Fluid Index) utilized to evaluate for these abnormalities. Continues to explore the use of ultrasound in the diagnosis of gynecologic abnormalities, including ovarian, uterine, and adnexal disease. Emphasizes the techniques of scanning the pelvis for all ages. Presents Doppler and Color Doppler applications in obstetrics and gynecology. This course includes an integrated, hands-on scanning component with required competency assessment. Prerequisite: Must be enrolled in DMS, DPP, or DMP programs.

**SS201 THE OFFICE PROFESSIONAL (3.0 credits/60 clock hours)** The Office Professional course is a capstone course for students. The course provides students with the opportunity to integrate their knowledge and skills in the areas of keyboarding, desktop publishing, letter composition, word processing, communications, and human relations. Professionalism will be stressed. Students will also explore the changing office environment with emphasis on the electronic office. Students complete projects and activities using various computer applications. Prerequisites: Keyboarding I & Lab or Keyboarding/Word Essentials, Keyboarding II, Keyboarding II Lab, Word Processing, and Desktop Publishing I.

**AP302 THE OFFICE PROFESSIONAL (3.0 credits/60 clock hours)** The Office Professional course is a capstone course for students. The course provides students with the opportunity to integrate their knowledge and skills in the areas of keyboarding, desktop publishing, letter composition, word processing, communications, and human relations. Professionalism will be stressed. Students will also explore the changing office environment with emphasis on the electronic office. Students complete projects and activities using various computer applications. Prerequisites: Keyboarding I & Lab or Keyboarding/Word Essentials, Keyboarding II, Keyboarding II Lab, Word Processing, and Desktop Publishing I.

**GE250 ORAL BUSINESS COMMUNICATIONS (1.0 credit/24 clock hours)** This applied communications course teaches the fundamentals of oral business communication with emphasis on improving speaking and listening skills in the workplace. This course will help students create informational speeches and familiarize students with formal speech preparation, business presentation skills, and effective nonverbal communication. Prerequisite: None.

**GE251 ORAL PRESENTATION SKILLS (1.5 credits/36 clock hours)** Oral Presentation Skills will introduce students to fundamentals in workplace communication with an emphasis on improving speaking and listening skills in a business environment. The course focuses on planning informative and persuasive messages, presenting business plans effectively, and speaking with confidence and poise. Prerequisite: Taken concurrently with the Business Plan.

**GA210 PACKAGING DESIGN (2.5 credits/60 clock hours)** This course focuses on package design for a variety of products. Some assignments address real-world content while others are more experimental. Students work with concept, surface design, materials, and the physical construction of three-dimensional forms. Prerequisites: Electronic Design I (Quark) or Electronic Design II (InDesign), Typography, Computer Graphics – Illustrator.

**HI100 PATHOPHYSIOLOGY (4.0 credits/72 clock hours)** This course is a study of abnormal anatomy and physiology associated with prominent clinical disease processes. Emphasis is placed on the nature, cause, diagnosis, treatment, and management of these conditions. Topics include diagnostic methods, interpretation of laboratory tests, and drug therapies. Prerequisites: Anatomy & Physiology I and II and Medical Terminology I and II.

**DS230 PATIENT CARE (2.5 credits/60 clock hours)** Presentation of simple to advanced patient care techniques such as moving patients, taking a history, managing patients with IV's, proper aseptic techniques, and infection control procedures. Prerequisite: Must be enrolled in DMS, DPP, or DMP programs.

**AC105 PAYROLL ACCOUNTING (3.5 credits/60 clock hours)** Payroll accounting introduces the student to the history of employment laws in the United States, the requirements for maintaining employees' payroll records, the computations necessary to determine proper wages and appropriate tax withholdings, the procedures for remitting the taxes, and the employer's responsibilities for reporting payroll information to the various governmental agencies. Current federal and Pennsylvania requirements will be discussed. In addition, the student will be exposed to an overview of the process necessary to record payroll transactions in a manual and computerized payroll system. Prerequisites: Introduction to Accounting or Accounting I and Introduction to Business Math or Business Mathematics.

**PD119 PERSONAL DEVELOPMENT (1.0 credit/24 clock hours)** Personal Development is designed to explore the fundamental building blocks to a student's success in school and ultimate success in the workplace. Topics include time, money, and stress management, professionalism, and teamwork. Prerequisite: None.

**MG231 PERSONAL FINANCIAL MANAGEMENT (2.0 credits/36 clock hours)** Upon completion of this course, the student will be able to: set realistic financial goals; understand how, when and where a recordkeeping system should be developed; develop a budget; understand debt and debt reduction; and understand Social Security benefits. Additionally, the following topics will be covered: savings and investment, the home as an investment, funding college education, purchasing an automobile, insurance, retirement, and wills. Prerequisite: None.

**MG212 PERSONAL FINANCIAL MANAGEMENT (1.5 credits/36 clock hours)** Upon completion of this course, the student will be able to: set realistic financial goals; understand how, when and where a recordkeeping system should be developed; develop a budget; understand debt and debt reduction; and understand Social Security benefits. Additionally, the following topics will be covered: savings and investment, the home as an investment, funding college education, purchasing an automobile, insurance, retirement, and wills. Prerequisite: None

**MD200 PHARMACOLOGY (2.0 credits/36 clock hours)** This course is an introduction to basic pharmacological concepts as it applies to the allied health fields. Various drugs will be presented according to their therapeutic applications. Pertinent physiology and related diseases will be reviewed. Emphasis is placed on current drug therapy. Each drug classification will be discussed in regard to its mechanism of action, main therapeutic effects and adverse reactions produced by the drugs. Prerequisites: Anatomy & Physiology I and II, Medical Terminology I and II, and Pathophysiology (DPP students do not need Pathophysiology). May take Anatomy & Physiology II and Medical Terminology II concurrently.

**CP253 PHP (3.5 credits/60 clock hours)** This course in web programming will introduce students to concepts of server-side scripting using PHP. Prerequisites: Web Site Design and Introduction to Programming & Logic.

**CJ203 PHYSICAL SECURITY & SAFETY (1.0 credit/24 clock hours)** This course details the use of physical controls for securing facilities, as well as methods of prevention of internal and external losses in business. Topics include parking and traffic control, security and fire alarm systems, locking systems, and electronic access control devices. Safety and liability problems are also discussed. Prerequisite: None.

**GE160 PHYSICS (4.0 credits/58 clock hours)** An algebra-based course for the ET, DMS, and DPP program students. Topics covered include technical measurements, simple machines, light and optics, elasticity, fluids, temperature and expansion, wave motion, and sound, as they are applied to Engineering and Sonography. Prerequisite: Advanced Algebra or enrolled in Diagnostic Medical Sonography Professional Plus (DPP) program.

**GE161 PHYSICS LAB (0.5 credits/14 clock hours)** A lab-based course for the ET, DMS, and DPP program students. Topics covered include technical measurements, simple machines, light and optics, elasticity, fluids, temperature and expansion, wave motion, and sound. Students work together in laboratory exercises to supplement the lectures. Prerequisites: Advanced Algebra or enrolled in Diagnostic Medical Sonography Professional Plus (DPP) program. This course is taken concurrently with Physics.

**MD239 PRACTICE MANAGEMENT & EHR (2.0 credits/60 clock hours)** This course provides instruction in fundamentals of the operation and maintenance of an electronic medical office health record system. This instruction will include use of computerized software for medical office. Prerequisites: Keyboarding/Word Essentials and taken concurrently with Medical Administrative Skills II.

**DS211 PRINCIPLES OF CARDIOVASCULAR TECHNOLOGY (2.5 credits/36 clock hours)** Presentation of a broad spectrum of invasive and noninvasive diagnostic procedures used in the assessment of heart disease. Prerequisite: Must be enrolled in DMS, DPP, or DMP programs.

**DS111 PRINCIPLES OF SONOGRAPHY (3.0 credits/60 clock hours)** This course is an introduction to the field of sonography, including common ultrasound nomenclature, scan plane orientation, responsibilities of the sonographer, certification/licensure standards for the professional sonographer, and lab accreditations/accrediting organizations within the ultrasound community. Other topics to be discussed include various subspecialties of ultrasound, the variety of career directions within sonography, and current issues facing sonographers in the workplace. A brief introduction to proper ergonomics for sonographers will be presented. Prerequisite: Must be enrolled in DMS, DPP, or DMP programs.

**HI200 PRINCIPLES OF SUPERVISION (2.0 credits/36 clock hours)** This course covers a variety of topics that impact the supervisor in the work force. The areas presented include the role of the supervisor in the work place, employee expectations, goal setting, planning, problem identification and resolution, organizations and organization charts, staffing, training new employees, theories of motivation, leadership styles, effective communication, performance appraisals, counseling problem employees, legislation impacting the work place, employee safety standards and labor unions. Prerequisite: None.

**MG200 PRINCIPLES OF SUPERVISION (2.0 credits/36 clock hours)** Concepts of management, including basic theories, planning, controlling, organizing, staffing, and training will be presented. Emphasis is placed on human relations, motivation, leadership, and communication. Preparation of budgets, time management, dealing with unions, and writing job descriptions will also be covered. Prerequisite: None.

**DS235 PRINCIPLES OF VASCULAR SONOGRAPHY (4.0 credits/72 clock hours)** This course is an introduction to the various applications of ultrasound to the diagnosis and treatment of vascular disorders, including cerebrovascular, peripheral arterial, and peripheral venous applications. It begins with the anatomy and physiology of the veins and arteries, and includes pathogenesis of atherosclerosis, cerebral ischemia, and deep vein thrombosis. It includes hemodynamics of atherosclerotic lesions, and reduction of catheter induced pseudoaneurysms. This course includes an integrated, hands-on scanning component with required competency assessment. Prerequisite: Must be enrolled in the DMS, DPP, or DMP programs.

**GA212 PRINT PORTFOLIO (2.5 Credits/60 clock hours)** The course focuses on the development of the student's print and digital portfolio in preparation for entering the graphic design profession. Several projects will encourage students to develop conceptual skills, to execute comprehensive projects, and to prepare for professional presentations. Students will design an identity portfolio campaign incorporating a resumé, and supporting body of work. At the end of the term, the students will have a physical print portfolio along with creating a personal online digital portfolio-based website. Prerequisites: Electronic Design I (Quark) or Electronic Design II (InDesign), Typography, Introduction to Computer Graphics (Photoshop), Computer Graphics – Illustrator, Typography as Design, Graphic Design Studio I, Concept Development, Advertising Design, Publication Design, Web Site Design.

**CD302 PROFESSIONAL DEVELOPMENT (1.5 credits/21 clock hours)** This course is taken concurrently with the internship. The faculty advisor and the student discuss the student's progress at the internship site in a group setting and, for specific problems and successes, individually. Weekly reports are submitted and the experiences of the week are reviewed. In addition, classroom instruction may be given to address areas where the interns, faculty, or site supervisors feel additional work is needed. Field trips to explore different business environments and/or to expand knowledge about the area of study may be taken. Prerequisite: Taken concurrently with the internship.

**DS225 PROFESSIONAL DEVELOPMENT I (2.0 credit/30 clock hours)** The student meets with his/her classmates and instructor for a full day, several times during the concurrent internship terms, to discuss interesting cases which the student has researched and written up during his/her internship experience. Additional classroom time is utilized for topics which require further study and may involve outside professionals speaking to the class. Pertinent journal articles are also presented and discussed. Prerequisite: Must be enrolled in DMS, DPP, or DMP programs.

**DS226 PROFESSIONAL DEVELOPMENT II (2.0 credits/30 clock hours)** The student meets with his/her classmates and instructor for a full day, several times during the concurrent internship terms, to discuss interesting cases which the student has researched and written up during his/her internship experience. Additional classroom time is utilized for topics which require further study and may involve outside professionals speaking to the class. Pertinent journal articles are also presented and discussed. Prerequisite: Must be enrolled in DMS, DPP, or DMP programs.

**HI601 PROFESSIONAL PRACTICE EXPERIENCE I (2.0 credits/84 clock hours)** This course provides the student with their first clinical experience in the health information field. Areas of focus include patient registration and admission procedures, storage and retrieval of health information/records, assembly and analysis of health records, diagnostic and procedural coding, billing, abstracting, statistics, incomplete record control procedures, and EHR applications. Prerequisites: Healthcare Quality Improvement, ICD Coding II, CPT-4, Health Care Statistics and Pharmacology.

**HI605 PROFESSIONAL PRACTICE EXPERIENCE II (8.5 credits/357 clock hours)** This course provides students with clinical experience to enhance their skills and knowledge in the health information field. The student will be placed in a health care setting such as a hospital, physician office, nursing home, prison setting, specialty healthcare facility, etc. Areas include the organization of the healthcare facility, record content, release of information, accreditation and licensing standards, coding and reimbursement systems, billing, statistics, EHR applications, quality management, utilization review, risk management, and other aspects pertinent to the setting. Prerequisites: Health Records in Other Settings, Medical Legal Aspects, Advanced Coding and Electronic Health Records.

**CP265 PROJECT MANAGEMENT (3.5 credits/60 clock hours)** This course is designed to provide up-to-date information on how good project management and effective use of software can help manage information technology projects. Students will study project management knowledge areas such as: project integration, scope, time, cost, quality, human resources, communications, risk, procurement management and stakeholder management, and process groups such as: initiating, planning, executing, monitoring and controlling, and closing to information technology projects. Prerequisite: Technical Writing.

**CJ204 PSYCHOLOGICAL FOUNDATIONS OF CRIMINAL JUSTICE (2.0 credits/36 clock hours)** This course is designed to explore and apply psychological principles and practice to the varied criminal justice functions in present-day society. Some of the specific topics that will be discussed and critically examined are: group formation and types of members; psychology of abuse and ethics; the unique psychological stresses of criminal justice work; critical incident stress management; conflict management and de-escalation; hostage situations; psychological stresses of command; psychology of crowds; riots and their effective control; the application of psychological principles in witnesses and juries; and the psychology of competence and insanity. Prerequisite: Introduction to Psychology.

**GE203 PSYCHOLOGICAL FOUNDATIONS OF CRIMINAL JUSTICE (2.0 credits/36 clock hours)** This course is designed to explore and apply psychological principles and practice to the varied criminal justice functions in present-day society. Some of the specific topics that will be discussed and critically examined are: group formation and types of members; psychology of abuse and ethics; the unique psychological stresses of criminal justice work; critical incident stress management; conflict management and de-escalation; hostage situations; psychological stresses of command; psychology of crowds; riots and their effective control; the application of psychological principles in witnesses and juries; and the psychology of competence and insanity. Prerequisite: Applied Psychology or Introduction to Psychology.

**GE215 PUBLIC SPEAKING (1.5 credits/36 clock hours)** Public Speaking will introduce students to fundamentals in workplace communication with an emphasis on improving speaking and listening skills in a business environment. The course focuses on planning informative and persuasive messages, presenting business plans effectively, and speaking with confidence and poise. Prerequisite: Taken concurrently with the Business Plan.

**GA209 PUBLICATION DESIGN (2.5 credits/60 clock hours)** Using skills learned from previous classes, students will apply learned principles of publication design to produce a series of related projects. Students will be asked to solve complex design problems when working with lengthy manuscripts, multiple-page documents, large-scale formats, periodicals and/or books. In addition, they will create and integrate functional and

typographical solutions that are sophisticated and visually distinctive. Prerequisites: Electronic Design I (Quark) or Electronic Design II (InDesign), Typography, Computer Graphics – Illustrator.

**MG207 REAL ESTATE FUNDAMENTALS (2.0 credits/36 clock hours)** Real Estate Fundamentals is designed to familiarize students with the laws, terminology, and principles governing real estate. The definitions of land, real property and real estate are the basis from which the course is built. The concept of title as well as the transfer of property and rights therein will be discussed. An introduction to real estate financing, including mortgage law, documentation, foreclosure and the primary and secondary markets will be discussed. Prerequisite: None.

**MG210 REAL ESTATE PRACTICE (3.0 credits/60 clock hours)** Where Real Estate Fundamentals was a theoretical course focusing on the ownership rights and legalities of real property, Real Estate Practice emphasizes the practicalities of the real estate business. Subjects that will be covered in detail are the following: specialization within the real estate business, including brokerage and sales, property management, investment and appraisal, real estate finance, and closing of the real estate transaction. Title records, fair housing laws, and the Pennsylvania Real Estate Licensing and Registration Act will be examined. Prerequisite: Real Estate Fundamentals.

**AP106 RECORDS MANAGEMENT (1.5 credit/30 clock hours)** This course teaches the fundamentals of filing through a series of instructions, exercises, and quizzes. Using a practice file kit, the student will apply correct procedures to file and request records. Records retention, transfer, and disposition will be discussed. Alphabetic, numeric, correspondence, and subject systems will be used in accordance with popular ARMA rules. Prerequisite: None.

**CJ107 REHABILITATION OF THE OFFENDER (2.0 credits/36 clock hours)** Through examination of literature, this course will explore correctional programs designed to rehabilitate offenders. The study of both institutional treatment models and community-based models will include: family intervention, counseling, self-help programs, diversion, house arrest, community service, probation and halfway houses and others. Prerequisite: Applied Psychology.

**MK194 RETAILING (3.5 credits/60 clock hours)** This course examines the different aspects of working in a retail store. Duties such as merchandising inventory control, pricing, buying, store operations, display, and store management will be stressed. Field trips and retailing-oriented speakers will be used to give the student a true picture of the world of retailing. Prerequisite: None.

**MK104 RETAILING (3.0 credits/60 clock hours)** This course examines the different aspects of working in a retail store. Duties such as merchandising inventory control, pricing, buying, store operations, display, and store management will be stressed. Field trips and retailing-oriented speakers will be used to give the student a true picture of the world of retailing. Prerequisite: None.

**MK192 SELLING (2.0 credits/48 clock hours)** Principles of personal selling and selling techniques will be presented. Attention will be focused on the fact that personal selling is a key element of a firm's promotional strategy. Particular emphasis will be placed on building person-to-person relationships; how and why customers buy; and the role of salespeople as advisors, consultants, and partners to the buyer. Traditional topics such as prospecting, the sales presentation, negotiating resistance, and closing a sale will also be examined. Prerequisite: None.

**MK193 SELLING (2.5 credits/48 clock hours)** Principles of personal selling and selling techniques will be presented. Attention will be focused on the fact that personal selling is a key element of a firm's promotional strategy. Particular emphasis will be placed on building person-to-person relationships; how and why customers buy; and the role of salespeople as advisors, consultants, and partners to the buyer. Traditional topics such as prospecting, the sales presentation, negotiating resistance, and closing a sale will also be examined. Prerequisite: None.

**CP239 SERVER ADMINISTRATION (3.5 credits/60 clock hours)** This course prepares the student to administer networks using server operating systems. It will focus on updates to the software and in-depth coverage of the administration aspects of server operating systems. This course includes topics such as installing, configuring, managing and troubleshooting. Prerequisite: Networking Essentials.

**MG224 SMALL BUSINESS MANAGEMENT (2.5 credits/48 clock hours)** This course will feature a real project detailing the fundamental principles of starting and maintaining a real small business. Retail, manufacturing and service businesses will be examined. Emphasis will be placed on financing and managing business operations, developing and executing a marketing strategy, understanding business risks, and organizational structure and legalities. The course is project oriented. Prerequisites: Marketing and Accounting I. May take Accounting I concurrently.

**GE154 SOCIOLOGY FOR CRIMINAL JUSTICE (3.0 credits/48 clock hours)** In this survey course, students are encouraged to think about society critically, by examining such topics as culture, socialization, social interaction, and social change. Included is the study of sociological perspectives, sociological imagination, and sociological research. The course specifically focuses on the sociology of deviant behavior so the students can apply the general theories to their work with criminal justice issues. Particular focus is on the effect of culture, groups, socialization, economics, gender, income disparity, roles and statuses and race on crime. The religious section expands to an understanding of the denominational makeup and religious conflict on prison systems. Government and social movement sections highlight protests, crowd control, riots and cults as criminal justice issues. Prerequisite: None.

**CP214 SOFTWARE SURVEY (3.0 credits/60 clock hours)** Students will have the opportunity to install and explore a wide variety of commercial software packages in this course. The emphasis will be on independent learning, so that the students will develop the skills necessary to install, evaluate, and use software packages that they will encounter in the future. In addition, students will be required to make an oral marketing presentation on one package, and to develop and conduct a training workshop to train several other students, using that same or another software package. Prerequisite: Computer Fundamentals, Introduction to Computing, Introduction to Computer Operating Systems, or Introduction to Operating Systems.

**IM246 SOLID MODELING CAD (3.5 credits/72 clock hours)** An introductory course of 3D solid parametric modeling using Autodesk Inventor. This course will present methods to create part models and assemblies, and create multi-view drawings based on those models and assemblies. The course materials will be reinforced through hands-on examples and projects. Prerequisite: Mechanical CAD.

**GE224 SPEECH (1.0 credit/24 clock hours)** This applied communications course teaches the fundamentals of oral business communication with emphasis on improving speaking and listening skills in the workplace. This course will help students create informational speeches and familiarize students with formal speech preparation, business presentation skills, and effective nonverbal communication. Prerequisite: None.

**CP104 SPREADSHEETS (3.0 credits/60 clock hours)** This course uses a problem-solving approach to teach spreadsheet functions. The student will be introduced to beginning and intermediate level spreadsheet functions that will be used for creating, manipulating, and enhancing a worksheet; for creating graphics based on the worksheet; for enhancing a worksheet; and for integrating worksheets and graphics. Prerequisite: Computer Fundamentals, Introduction to Computing, Introduction to Computer Operating Systems, or Introduction to Operating Systems.

**GE246 STATISTICAL METHODS AND APPLICATIONS (3.0 credits/60 clock hours)** This course is designed to give the student a basic knowledge of the statistics used in today's business world. Although most students do not plan to become statisticians, a working knowledge of descriptive and inferential statistics is required for most entry-level positions. The following areas will be covered: collection of data, introduction to sampling concepts, deceptive statistics, frequency distributions, graphing, cross tabulations, measures of central tendency, measures of dispersion, introduction to probability, binomial distribution, normal distribution, hypothesis testing with one sample and related areas. Prerequisite: Applied Algebra

**GE217 STATISTICS (3.0 credits/60 clock hours)** This course is designed to give the student a basic knowledge of the statistics used in today's business world. Although most students do not plan to become statisticians, a working knowledge of descriptive and inferential statistics is required for most entry-level positions. The following areas will be covered: collection of data, introduction to sampling concepts, deceptive statistics, frequency distributions, graphing, cross tabulations, measures of central tendency, measures of dispersion, introduction to probability, binomial distribution, normal distribution, hypothesis testing with one sample and related areas. Prerequisite: Algebra.

**CP306 TCP/IP (3.5 credits/60 clock hours)** This course in TCP/IP will cover topics essential to the installation, configuration, and administration of the TCP/IP protocol suite. Prerequisite: Networking Essentials.

**IM105 TECHNICAL DRAWING (3.0 credits/60 clock hours)** This course is a practical approach to the fundamentals of manual engineering drawing and includes an introduction to computer aided drafting (CAD). Included are ANSI, ASME, AWS, and SI standards. Concepts covered include scales and precision measurement, auxiliary views, sections and dimensioning. This course is a prerequisite for Introduction to Computer Aided Drafting. Prerequisite: None.

**GE269 TECHNICAL PRESENTATIONS (1.0 credits/24 clock hours)** This course covers principles of effective technical presentations and provides a structure for applying them in a professional setting common to the Information Technology profession. Prerequisite: Business Applications.

**GE237 TECHNICAL WRITING (2.5 credits/36 clock hours)** The students will apply their English I and II experience in learning how to write effective business documents. Types of documents include: resumes, cover letters, technical descriptions, process descriptions, work instructions, and proposals. The students perform readability tests and learn how to improve existing documentation. Prerequisites: English I, English II, Business Applications or Microsoft Office or Word Processing.

**GE252 TECHNICAL WRITING (1.5 credits/36 clock hours)** The students will apply their Business English I and II experience in learning how to write effective business documents. Types of documents include: resumes, cover letters, technical descriptions, process descriptions, work instructions, and proposals. The students perform readability tests and learn how to improve existing documentation. Prerequisites: Business English I and II, Business Applications or Microsoft Office or Word Processing.

**SS103 TELEPHONE & RECEPTIONIST TECHNIQUES (1.0 credit/24 clock hours)** This course is designed to give the student formal training on how to answer the telephone professionally and greet the office visitor in a businesslike manner. Prerequisite: None.

**AP108 TELEPHONE & RECEPTIONIST TECHNIQUES (1.0 credit/24 clock hours)** This course is designed to give the student formal training on how to answer the telephone professionally and greet the office visitor in a businesslike manner. Prerequisite: None.

**CJ206 TERRORISM AND HOMELAND SECURITY (2.0 credits/36 clock hours)** This course studies the phenomena of international and domestic terrorism from the historical and criminal justice perspectives. Historical and political viewpoints are discussed, as well as a study of the changing trends in homeland security and justice. Prerequisite: None.

**AP107 TRANSCRIPTION (1.5 credits/30 clock hours)** This course stresses aural communications correctly transcribed into mailable business letters. Prerequisite: Keyboarding I & Lab or Keyboarding/Word Essentials, Word Processing, and Business English I and II.

**GA105 TYPOGRAPHY (3.0 credits/60 clock hours)** This fundamental typography course focuses on the expressive and functional aspects of typography in graphic design. Assisting the student in forming a basic understanding of typography based design elements will enable them to advance themselves imaginatively, creatively, and eloquently. Prerequisite: None.

**GA203 TYPOGRAPHY AS DESIGN (3.0 credits/60 clock hours)** Continues the study of typography; this course will further examine the relationship of type and graphic design. Using traditional and computer generated typography as a dominant element, projects will be accomplished to study current typographic trends in graphic design. Prerequisite: Typography.

**GA213 TYPOGRAPHY – EXPRESSIVE & EXPERIMENTAL (2.5 credits/60 clock hours)** Emphasis is placed on the expressive potential of typography. How the form of the written word(s) affects the meaning is studied experimentally. The emphasis is on design elements from the perspective of history, psychology, and artistic interpretation executed with digital tools. Prerequisite: Typography.

**DS208 ULTRASOUND PHYSICS & INSTRUMENTATION I (2.5 credits/48 clock hours)** This course presents basic physics of diagnostic ultrasound, including properties of pulse-echo ultrasound, display modes, instrumentation, and resolution. Prerequisite: Must be enrolled in DMS, DPP, or DMP programs.

**DS266 ULTRASOUND PHYSICS & INSTRUMENTATION II (2.5 credits/48 clock hours)** Begins with discussion of the Doppler effect, calculation of flow velocities via the Doppler equation, methods of spectral analysis such as FFT (fast fourier transformation), analog and digital displays, and color Doppler. Covers properties of Doppler ultrasound instruments such as pulse repetition frequency (PRF), aliasing, and Nyquist limit. Includes discussion of power and intensity measurements of ultrasound instruments, and various methods of calculating dosage. Discussion of legal ramifications of output power of ultrasound instruments. Prerequisite: Must be enrolled in DMS, DPP, or DMP programs.

**DS232 ULTRASOUND PHYSICS & INSTRUMENTATION II (3.0 credits/48 clock hours)** Begins with discussion of the Doppler effect, calculation of flow velocities via the Doppler equation, methods of spectral analysis such as FFT (fast fourier transformation), analog and digital displays, and color Doppler. Covers properties of Doppler ultrasound instruments such as pulse repetition frequency (PRF), aliasing, and Nyquist limit. Includes discussion of power and intensity measurements of ultrasound instruments, and various methods of calculating dosage. Discussion of legal ramifications of output power of ultrasound instruments. Prerequisite: Must be enrolled in DMS, DPP, or DMP programs.

**DS210 ULTRASOUND OF THE THYROID, BREAST, AND SUPERFICIAL STRUCTURES (3.0 credits/60 clock hours)** Describes diseases and sonographic anatomy of the breast, including discussion of X-ray, mammography, ultrasound screening, and biopsy. Presents endocrinology of the thyroid gland, including diseases such as thyroiditis, multinodular goiter, hyper and hypothyroidism, and various benign and malignant tumors. Also describes diagnostic blood tests for thyroid dysfunction. Other topics include evaluation of the testicles and prostate gland, superficial cysts, and muscle

tumors (sarcoma). This course includes an integrated, hands-on scanning component with required competency assessment. Prerequisite: Must be enrolled in DMS, DPP, or DMP programs.

**CP303 UNIX/LINUX ADMINISTRATION (3.5 credits/60 clock hours)** This course will equip the student with the ability to perform basic and intermediate level system administration tasks in the UNIX/Linux operating environment. The class will take a practical hands-on approach to learning UNIX administration. Each student will be provided with his/her own workstation during class, in which they will be afforded 'root' privileges. Prerequisite: Each student must have successfully completed UNIX/Linux Essentials receiving a "C-" or better, in order to enroll in this course.

**CP262 UNIX/LINUX ESSENTIALS (3.5 credits/60 clock hours)** This course explores the Linux operating system and teaches students how to install, configure, and update a Linux operating system. Students will perform tasks such as creating, managing, and deleting user accounts, performing software installation and package management, writing bash scripts, installing and configuring various Linux distributions, automating the scheduling of tasks, managing remote access, and configuring network interfaces and services. Prerequisite: Computer Fundamentals, Introduction to Computing, Introduction to Computer Operating Systems, or Introduction to Operating Systems.

**DS254 VASCULAR PATHOPHYSIOLOGY (3.0 credits/60 clock hours)** Systematic presentation of diseases and conditions of the vascular system. Prerequisite: Must be enrolled in DMS, DPP, or DMP programs.

**DS252 VASCULAR TECHNOLOGY I (3.0 credit/60 clock hours)** This is an in-depth course teaching various applications of ultrasound to the diagnosis and treatment of vascular disorders, including cerebrovascular, aorto-iliac and lower extremity arterial and lower extremity venous disease. It begins with the anatomy and physiology of the extracranial arterial, lower extremity venous and lower extremity arterial circulation systems and includes pathogenesis and duplex assessment of aorto-iliac lower extremity atherosclerosis and aneurysmal disease, cerebral ischemia, deep vein thrombosis, and venous insufficiency. This course includes an integrated, hands-on scanning component with required competency assessment. Prerequisite: Must be enrolled in DMS, DPP, or DMP programs.

**DS308 VASCULAR TECHNOLOGY II (4.0 credits/72 clock hours)** This is a course teaching various applications of ultrasound in the diagnosis and treatment of vascular disorders, building upon the continuing topics in Vascular Technology I. This course includes an integrated, hands-on scanning component with required competency assessment. Prerequisite: Must be enrolled in DMS, DPP, or DMP programs.

**DS258 VASCULAR ULTRASOUND SPECIAL TOPICS (3.0 credits/60 clock hours)** This course will focus on instructing the student in the assessment of case studies and journal articles, the development of preliminary reports, and the completion of an in-depth research paper and presentation. The classroom discussion and instruction will revolve around special aspects of vascular testing, new procedures, vascular laboratory management and assessment of new vascular treatment methods such as endovascular grafts, stents, dialysis access, and arterial and venous mapping. Prerequisite: Must be enrolled in DMS, DPP, or DMP programs.

**GA301 VIDEO PRODUCTION AND EDITING (3.0 credits/60 clock hours)** This course introduces the student to video production and non-linear digital video editing. Instruction is given on basic techniques of projection incorporating camera operation, lighting, audio, and storyboarding. Using appropriate software, the student will learn how to operate desktop non-linear editors. Prerequisite: None.

**CP233 WEB SITE DESIGN (3.0 credits/60 clock hours)** This course introduces students to basic web design using HTML5 (Hypertext Markup Language) and CSS3 (Cascading Style Sheets). Throughout the course students are introduced to web site planning, writing HTML5 and CSS3 code, page layout techniques, text formatting, inserting graphics, images, and multimedia, creating forms, and utilizing a responsive design. Prerequisite: Computer Fundamentals, Introduction to Computing, Introduction to Computer Operating Systems, or Introduction to Operating Systems.

**CP263 WEB SITE DESIGN II (3.5 credits/60 clock hours)** This course introduces advanced web site design techniques using Adobe Dreamweaver and advanced web graphics editing using Adobe Photoshop/Fireworks. Students will learn advanced techniques of creating web sites using Dreamweaver XHTML programming code. Advanced CSS implementation along with various methods of site design will be explored. Primary focus will be on further developing the students skills using <div> tag development, CSS/ CSS3 and Javascript when developing a website, enabling students to create more dynamic, interactive, and commercially viable web pages. Prerequisite: Web Site Design.

**WP202 WORD PROCESSING (3.0 credits/60 clock hours)** This course is designed to provide students with the basic understanding of word processing applications, concepts, and terminology. The purpose of the course is to develop an ability to use the current version of Microsoft Word for both professional and personal use. Prerequisite: Keyboarding I & Lab or Keyboarding/Word Essentials with a C- grade or better.

**GE155 WRITING FOR CRIMINAL JUSTICE (4.0 credits/60 clock hours)** This course focuses on preparing students for report writing in the CJ field. Students will learn to create and write crime, evidence, suspect, and corrections reports. Students will apply the principles of grammar, punctuation, usage, composition, and critical thinking to writing effective CJ reports. Interrogation and interviewing techniques will also be incorporated into the class. Prerequisite: English II (C- or better).

**GE157 WRITING FOR CRIMINAL JUSTICE (3.5 credits/60 clock hours)** This course focuses on preparing students for report writing in the CJ field. Students will learn to create and write crime, evidence, suspect, and corrections reports. Students will apply the principles of grammar, punctuation, usage, composition, and critical thinking to writing effective CJ reports. Interrogation and interviewing techniques will also be incorporated into the class. Prerequisite: Business English II (C- or better).

**PD100 YOGA (1.0 credit/24 clock hours)** This class offers a progressive and safe approach to improve and/or maintain a high level of fitness through application of conditioning principles. Students are encouraged to understand their own limitations and work within their bounds. In particular, this class introduces the values and skills of yoga to the beginning student. All students will be given the tools to reduce tension, increase energy levels, move efficiently, and reconnect to self-awareness. The poses and flows are adaptable and can be personalized for any level of fitness. The course includes teacher directed activity and opportunities for self-paced practice. The emphasis of the class will be on *asanas* (poses) and *vinyasa* (flow) for increased flexibility, improved health, relaxation, and reduced stress in daily living. Prerequisite: None



# ACADEMIC INFORMATION

## Academic Honor and Excellence . . .

South Hills School of Business & Technology is fully committed to the highest standards of academic honor and excellence. We at SHSBT expect the same commitment from our students, staff, and faculty. Following is a list of expectations that we must adhere to in order for us to achieve our goals of academic honor and excellence. Although this list is not exhaustive, it does provide guidelines for everyone to follow.

1. Everyone (staff, faculty and students) will arrive on time for work, class, meetings, etc.
2. All students are expected to attend all classes. In the event of emergencies, students are to contact their instructors **in advance** if an absence is expected to occur. If it is impossible to convey advance notice, the instructor is to be notified ASAP. This will still be viewed as an absence.
3. All students will perform their own work (copying/giving test answers and copying/giving papers/homework/projects is prohibited).
4. Credit must be given to the proper sources for work that is not original (plagiarism).
5. All employees and students of SHSBT will treat one another with dignity and respect. The following will not be tolerated:
  - Obscene language
  - Obscene clothing: language, images, over exposure of body
  - Obscene gestures
  - Violence: physical violence, threats of violence, verbal abuse
  - Aggressive or disrespectful language
6. SHSBT is a drug- and alcohol-free school. Students, faculty and staff sign a statement attesting to their understanding of this policy, i.e. no drugs or alcohol in the facility or on the grounds.

Any non-compliance with the above expectations may result in termination/expulsion. Disciplinary action is at the discretion of the Director and/or an appointed disciplinary committee. Ignorance will not be viewed as excusable.

## Attendance . . .

In order to assure the best possible training, prompt and regular attendance is expected. All students must be present for tests and examinations.

A student should notify the school of his/her absence and the cause preferably before the first class in the morning. If the student must leave the school early or arrives late, he/she is required to sign in or out at the main desk.

Repeated absences or late arrival for class will necessitate the student to meet with the school Director or Academic Affairs Officer to discuss the student's willingness to continue in the program. Excessive absences could result in dismissal.

If a student is absent from school for 10 consecutive school days without a legitimate excuse and has not notified the school of such circumstances, the student will be withdrawn from school.

Course Registration Cancellation. To be considered registered for a course, students must attend within the first five days of the term. After the fifth day, a student's registration for any course(s) will be canceled.

## Credit Structure, Outside Preparation, Credit Transfer, and Exemption Credit . . .

To adequately comprehend content and achieve success in South Hills courses, time outside of class spent reading, studying, reviewing, practicing, researching, and completing assignments is required. The number of credit hours assigned to a traditionally delivered course is defined by Federal regulation for purposes of financial aid and is based on the following definition.

In compliance with criteria outlined by the Department of Education, South Hills defines one quarter credit as either:

- A minimum of 14 direct faculty instruction periods (lecture) with not less than two hours of out-of-class work per hour of lecture
- Or 28 laboratory hours
- Or 42 internship hours
- Or an appropriate combination of all three per 10-12 week session

As courses are developed, instructors from the content area meet to determine the number of hours of lecture and the number of hours of lab for that course, based on content. Homework is then developed to meet the number of hours required by Federal regulations. South Hills uses the following guidelines for time spent on homework.

Textbook reading	@10 pages per hour (skimming, careful reading, review)
End-of-Chapter Questions	@1 hour per 10 questions
Article Reading and Analysis	@6 pages per hour (study guides, workbook assignments, etc.)
Non-Critical Reading	@20 pages per hour
Study for Quizzes	@2 hours
Study for Tests	@4 hours
Group Project	Variable time depending on project
Individual Project	Variable time depending on project
Creating Formal Paper	@2 hours per page
Homework Practice	@1/2 hour per lecture hour (math, accounting, grammar, etc.)

Note: A quarter credit hour is a unit of measure, not necessarily an indicator of transferability of credit. The receiving institution, rather than the training institution, decides whether to accept credits for transfer.

Transfer credit from a business school, college or university accredited by an agency recognized by the United States Department of Education (USDE) or the Council for Higher Education Accreditation (CHEA) to South Hills School of Business & Technology is considered on an individual basis. No more than 50 percent of program credits can be transferred into a student's program. Technical (computer) courses or core program courses shall be considered for credit if they have been completed within the last five years (may be extended if an academic award was received or the student is working in the field). Specific or required math and science courses have a ten-year age limit. General education credits have no age limit.

In order to be considered for transfer credit, the student must supply an official copy of his/her college transcript, along with a copy of the course description(s) no later than the start of his/her first term.

Transfer credits may include credits from an accredited business school, college or university. Transfer credit may be granted: (1) if the course taken at another post-secondary institution was successfully completed with a grade of "C" or better, (2) meets the age of credits requirement, and (3) is comparable to the course given at South Hills School of Business & Technology.

Prior Learning Assessment credit (PLA) is available to students under certain circumstances. If PLA credits are granted, the credits will be counted within the 50 percent transfer rule.

No quality points will be awarded for credits received as transfer credits from another accredited school or through Prior Learning Assessment credit. Transfer credits or exemption credits will not be used in calculating the student's GPA, but will count as credits completed.

South Hills School of Business & Technology reserves the right to require the student to take an exemption examination. There is a standard \$25 fee for an exemption test other than the required placement tests.

Exemption/advanced placement tests are available to take from a limited number of classes. A \$25 fee is required for all exemption/advanced placement tests except Algebra, Computer Fundamentals, Keyboarding Essentials, and Introduction to Computing. Successful completion of the exam would give the student exemption credit, which will be counted within the 50 percent transfer rule.

Transfer, PLA, and exemption credits will not be used in calculating the student's GPA or in calculating academic progress.

Prior to taking an exemption test, it is the student's responsibility to obtain accurate information from the Business Office as to the effects such exemption credit may have on his/her financial aid and tuition charges. Such action should also be discussed with someone in the Academic Affairs Office.

A \$25 per-credit charge will be assessed when a new test is developed for an individual request. The Director will decide any exceptions to this policy.

Decisions concerning the acceptance of credits earned in any course taken at the school are made at the discretion of the receiving institution. The school makes no representation whatsoever concerning the transferability of any credit earned at the school to any other institution. Any student considering continuing his/her education at, or transferring to, another institution, must contact the registrar of that receiving institution to determine what credits earned at South Hills, if any, that institution will accept.

## Clock Hours . . .

A clock hour is equivalent to 50 minutes of classroom instruction. The total clock hours listed for each program are the minimum required by the school for completion of a diploma or degree.

## Make-Up Work . . .

Each faculty member will establish and publish his/her specific policies regarding the circumstances in which students are allowed to make up work, quizzes, and exams missed because of excused absences. If make-up work is allowed, students will not be charged any additional fees to submit this work.

## Prior Learning Assessment . . .

Prior Learning Assessment evaluates an adult student's learning, which has been acquired outside the traditional classroom through work experience or other professional training and/or certifications. PLA determines if this learning is equivalent to the academic curriculum of South Hills School, and is eligible for credit. Along with a \$25 processing fee, each student is required to submit a Prior Learning Assessment Application and Portfolio for evaluation.

The granting of PLA credit applies only to associate degree programs at South Hills School. PLA credit(s) may or may not be transferable. If a student plans to continue his/her education at another post-secondary school, that school should be contacted to find out what

their policy on credit(s) regarding experiential or life learning. A maximum of 12 PLA credits will be allowed.

The Prior Learning Assessment application must be completed prior to the beginning of the term in which the student is scheduled for class. PLA will not be considered once the student has attended classes for the course he/she is attempting to apply to exempt through PLA.

For evaluation details and PLA application, see the Academic Affairs Officer or location Director. (Also see Credit Structure, Credit Transfer, and Exemption Credit.)

## Grading . . .

Students are graded on the basis of overall performance, including class attendance, attitude, work and study habits, periodic examinations, and the attainment of the necessary levels of proficiency in class. An overall 2.0 average is required for graduation.

The grading scale used at South Hills School is below.

Grade	Percentage	Quality Points
A	95-100	4.0
A-	93-94.9	3.7
B+	91-92.9	3.4
B	87-90.9	3.0
B-	85-86.9	2.7
C+	83-84.9	2.4
C	78-82.9	2.0
C-	76-77.9	1.7
D+	74-75.9	1.4
D	70-73.9	1.0
F	Below 70	0.0
WD	Withdraw, No Grade	
EC	Exempt Credit	
TC	Transfer Credit	
PL	Prior Life Assessment	
P	Pass	

All "F" grades must be repeated. The mark of "I" (incomplete) is entered on the record when a student cannot complete course requirements because of extenuating circumstances within the normal time limit of the course. An incomplete grade must be removed two weeks after the completion of the course or it automatically becomes the grade earned. This time frame may be adjusted at the discretion of the Director.

Some courses may be impossible to grade with the usual grading scale. In those courses a Pass/Fail scale may be used. If a course is to be graded on this basis, the student will be notified by the instructor in the syllabus.

A student passing a Pass/Fail course will receive no quality points and the credits received will not be used in calculating the grade-point average. Failures are treated as an "F" in the usual scale.

A student must attain a "C-" grade or better in all major courses in his/her curriculum. If a student changes his/her curriculum, it will be necessary for him/her to repeat any course for which he/she received a "D" grade if it is a major course in the new program.

For the HIT, MOS, and MA programs, entrance into each term is granted after successful completion of the coursework in prior terms. Successful completion constitutes a "C-" or better in all major-specific courses. A major-specific course is any course that begins with HI, MA, or MD in the course number.

A student who is dismissed or who withdraws from the program may reapply after successful completion of all required courses up to that point in the program.

Students enrolled in the Health Information Technology program must earn a "C-" or better in ALL courses in order to graduate. This requirement also applies to the student's eligibility to sit for the

Registered Health Information Technology (RHIT) examination. Students earning less than a "C-" would have to repeat the course or courses before they earn their associate degree in this field or take the RHIT examination.

Students enrolled in the Diagnostic Medical Sonography, Diagnostic Medical Sonography Professional, and Diagnostic Medical Sonography Professional Plus programs must meet the following requirements: Entrance into each term is granted only after successful completion of the coursework in all prior terms. Successful completion constitutes a "C" or better. The following could result in academic dismissal from any of the DMS programs: (1) less than a "C" in any course in the sonography curriculum, and (2) students that do not complete term requirements.

To determine the GPA, use the following formula: Divide the total quality points by the total credits attempted minus the credits withdrawn and credit earned as pass/fail.

Changing Programs and Earning Additional Degrees. When a student changes programs or seeks an additional degree, only the credits attempted and grades earned for those courses which are applicable to the new program will be used to determine satisfactory progress.

Academic Warning. Students receive the notation when the term grade-point average is below a 2.0 and/or the cumulative GPA is below 2.0.

Probation. See "Probation" under the handbook section "Satisfactory Progress."

Note: Algebra, Advanced Algebra, and Geometry & Trigonometry are considered major courses in the Engineering Technology program. Additionally, a "B" or better grade in Algebra is required to get into Advanced Algebra and to continue in the Engineering Technology program.

Instructors will distribute specific course grading requirements at the beginning of each course.

## Report Cards . . .

Report cards are distributed to the students at the conclusion of each term. A grade and grade-point average are indicated on the report.

At the mid-term period review meetings will be held with all students receiving below a "C-" grade.

## Dean's List . . .

In 1979 a Dean's List was established to honor those students in all curricula who receive a grade-point average of 3.5 or better in any term. Students must be taking 6.0 credits (half-time) to be eligible for the Dean's List. At graduation, students will be further honored for maintaining high academic excellence for all terms attended.

## Double Major . . .

A double major may be earned at South Hills School of Business & Technology by taking the additional courses necessary to finish the second major beyond those courses required for the first major.

## Degree/Diploma Completion . . .

South Hills School understands that an interruption of a student's education may occur. Students often reapply and finish their education at a later date. Students enrolled in an ASB/AST degree or diploma program at South Hills School must complete that program within five years from the date they first enroll in that program. Any student

wishing to complete a degree/diploma in which he/she originally enrolled beyond this time must seek permission from the Director. Please see the financial aid section of this catalog for information about degree completion as it relates to financial aid eligibility.

## Residential Learning . . .

South Hills School of Business & Technology delivers residential learning. All classes are held in the school's facilities.

## Changing Programs/ Dropping & Adding Courses . . .

A student may contact the Academic Affairs Officer with a request to change programs at any time. The Academic Affairs Officer or Assistant will develop a projection of courses and the time which will be necessary to complete the new program. The change of program will become effective at the start of the following term.

A student may add a course no later than one week after the course begins. A student dropping a course after that time period and before the end of the ninth week of a full-term course or the fourth week of a half-term course will receive the notation, "Withdrew" on the transcript. A student may withdraw up until the end of the ninth week of a twelve-week course or the fourth week of a six-week course without taking the grade earned. Following that period of time a student withdrawing an individual course will take the grade earned for the entire course. Exceptions may be made for documented reasons.

To officially make any changes, the student must complete the official Drop/Add/Change of Program form, obtainable from the academic affairs office. The drop, add or change of program is not effective until all signatures have been obtained on the form and the white form has been returned to Academic Affairs. In the case of dropping a course, the student is to continue to report to class until the form has been completed.

## Satisfactory Progress . . .

The academic year for students enrolled at South Hills School of Business & Technology is three 12-week quarters per year. The school determines at the end of each quarter that a student is progressing satisfactorily, using the grade-point average. The student is notified of Academic Warning" or "Probation" status by a notation on his/her transcript and notification of a required meeting with the Academic Affairs Officer.

The notation on the transcript when a student does not make satisfactory academic progress for a quarter will be "Academic Warning 1." If the student fails to meet satisfactory academic progress in the following term, the notation will state "Academic Warning 2" only as an indication that they were unable to meet the progress criteria to be removed from Academic Warning status. The student is then no longer eligible for financial aid unless a formal written appeal is submitted and approved (see Probation below).

The maximum allowable time frame for a student to complete a program in which he/she is enrolled is 1.5 times the length of the program (see Table 1 below). At the 50 percent point of his/her program, the student must have a minimum of a 2.0 cumulative GPA. At the completion of the program, the student must have a 2.0 cumulative GPA in order to graduate. In programs longer than two years, at the two-year point (six quarters), students must have a minimum of a 2.0 cumulative GPA. In cases where a student enrolled in a two year program is still enrolled after two years, the student must have a minimum of a 2.0 cumulative GPA at the end of the two-year point (six quarters) and at the end of each subsequent academic year. **In no case can any student exceed one and one-half times the standard program length and receive the academic credential (diploma or ASB/AST degree) for which he or she is enrolled.**

**Table 1**

School Program Length	Maximum Time Frame (School Program Length x 1.5)	50% Evaluation Point
4 quarters	6 quarters	End of 2nd quarter
6 quarters	9 quarters	End of 3rd quarter
7 quarters	10 quarters	End of 3rd quarter
9 quarters	13 quarters	End of 4th quarter

**Academic Warning** Students receive this notation when the quarter GPA is below 2.0 and/or the cumulative GPA is below 2.0. A student may continue for an additional term and receive financial aid under the Academic Warning status. **Students may not be placed on Academic Warning for more than one consecutive quarter.**

**Academic Probation** At the end of the quarter noted as Academic Warning if the quarter GPA is below 2.0 and/or the cumulative GPA is below a 2.0, the student must formally appeal in writing to the school's Academic Progress Committee (see Appeal below). If the appeal is successful, the student will be placed on Academic Probation for one quarter. **Students may not be placed on Probation for more than one quarter.** Eligible students may continue to receive financial aid while on Probation.

While on Academic Probation, the student must earn at least a 2.0 GPA in the quarter and must achieve a cumulative GPA of at least 2.0 to maintain diploma or associate in specialized business or technology degree status. In addition, the student must meet the requirements of the 50 percent evaluation point in the satisfactory academic progress policy as outlined above (see above policy and Table 2). **If these criteria are not met, then the student has not achieved satisfactory academic progress and will not continue to receive financial aid.** If the above criteria is met and the student has met the financial aid SAP standards, he/she will be removed from Academic Probationary status and be eligible to apply for financial aid see "Satisfactory Academic Progress (SAP) for Title IV Aid (Federal Pell Grant, Direct Loans) in the handbook for further information. At the completion of any program, the student must have a minimum of a 2.0 cumulative GPA.

**Table 2\***

Program Name	Total Credits	50% Evaluation Point
Administrative Professional	101.5	50
Business Administration – Accounting	90.0	45
Business Administration – Management & Marketing	99.0	49
Criminal Justice	97.0	48
Diagnostic Medical Sonography	127.0	63
Diagnostic Medical Sonography Professional	69.5	34
Diagnostic Medical Sonography Professional Plus	89.5	44
Engineering Technology	94.0	47
Graphic Arts	102.5	51
Health Information Technology	90.5	45
Information Technology	101.0	50
Medical Assistant	100.0	50
Medical Office Specialist	90.5	45

*\*The 50% point for those students that have transferred, changed programs, reapplied or are attending part-time will differ from that of a student who finishes their program in the normal timeframe. Therefore, the 50% point for an off-track student will be based on total credits in their program and the mid-way point will be determined when a student has attempted 50% of the credits required to complete his/her program, or the term just prior to exceeding 50 percent.*

Students may be granted Academic Probation for one quarter unless it is determined that a student will be unable to achieve satisfactory academic progress as well as the graduation requirements as outlined above by the end of the quarter. If it is determined that a student will be

unable to meet the graduation requirements within the maximum time frame allowed, the student will be dismissed from his/her program.

**At the end of the quarter of Probation, the student will be dismissed from his/her program if satisfactory academic progress has not been achieved. He/she will lose all student financial aid.** Once the student has been dismissed from his/her program, the student may return to school as a certificate student. The student will not be able to enroll in any program or be eligible for financial aid until the quarter GPA and cumulative GPA reaches a 2.0 and the student has earned 67 percent of the credits attempted in that quarter as well as overall toward his/her intended program. **The student who has been dismissed from his/her program for failing to meet satisfactory academic progress after probation cannot be reinstated into the program in which he/she was originally enrolled.**

**Extended Enrollment Status** If a student loses his/her diploma or ASB/AST degree status because of not meeting satisfactory academic progress or cumulative GPA requirements, he/she will be placed on an extended enrollment status and may continue training as a certificate student. **Certificate students are ineligible for any student financial aid.**

Re-entry into a different diploma or ASB/AST degree program than the original program will be based on the student achieving a minimum GPA and cumulative GPA of 2.0, and successfully completing 67% of the credits attempted towards his/her new program. The student may then be eligible for federal, state or other student financial aid. However, in no circumstances may the student exceed the 150% maximum time frame as outlined above and graduate in a diploma or degree program. Credits taken by the student on extended enrollment status will be counted as credits attempted, and will be used in calculating cumulative GPA towards his/her new program.

**Failure** Students who fail all courses in any quarter are dismissed from the school as diploma or ASB/AST degree students. They may, however, continue training as certificate students and the policy below for reinstatement will apply. **The student will not be eligible for financial aid during this period and will be responsible for the cost of these certificate credits.**

**Incompletes** An incomplete is identified on the report card with an "I." An incomplete grade must be removed two weeks after the completion of the course or it automatically becomes the grade that the student has at that point earned. This time frame may be adjusted at the discretion of the Director or Director of Education. The incomplete grade has no effect on the GPA. However, the incomplete grade is considered as credits attempted, but not completed, in calculating the percentage needed for satisfactory academic progress. After the two week period and the course completion, the student receives his/her grade, and the student's GPA and satisfactory academic progress are recalculated. Financial Aid will wait to review the student's satisfactory academic progress until the incomplete course has a grade.

**Withdrawals** A student may add a course no later than one week after the course begins. A student dropping a course after that time period and before the 75 percent point which is the end of the ninth week of a full-term course or the fourth week of a half-term course, will receive the notation "WD" (withdrew) on the transcript. A student withdrawing from a course after the drop period will receive the grade earned for the course and may not withdraw from the class.

A course with the designation of "WD" has no effect on the quarter's GPA and is not considered as credits earned in calculating the percentage needed for satisfactory academic progress. It is counted as credits attempted in determining the maximum course completion length allowed. For financial aid purposes, withdrawn course(s) count as credits attempted, but not earned, when calculating whether or not the student has earned 67 percent of credits attempted.

After the official drop period as outlined above, students will not be allowed to withdraw from school without receiving grades, but they will receive the grades earned for all courses. If a student has mitigating circumstances as to why he/she needed to withdraw from school after the official drop period, and has notified the school of such circumstances, he/she may appeal the withdrawal decision. The appeal regarding this decision must be made to the Director of

Education or the Academic Affairs Officer in writing. A decision on the appeal will be made by the Academic Progress Committee comprised of the Director, the Director of Education, the Academic Affairs Officer, the Student Records Coordinator, the student's faculty advisor, and the Financial Aid Director. The student will be expected to explain what type of circumstances contributed to the need to withdraw and include the necessary documentation. The decision of the committee will be final.

**Repetitions** A repeated course is identified on the transcript with an asterisk beside the grade. A student may only repeat a course one time after failing (or receiving a "D" in a course considered a "major" course). When a course is repeated, the best grade is included when determining the cumulative GPA. The credits for the repeated course are not included when determining cumulative GPA.

**Pass/Fail Courses** Pass/Fail courses are rarely given and do not affect the grade-point average. Credits will count toward satisfactory academic progress.

**Change Program** When a student changes programs or seeks an additional degree, only the credits attempted and the grades earned for those courses which are applicable to the new program will be used to determine satisfactory academic progress.

**Leave of Absence** A leave of absence must be approved by the Director and Academic Affairs Officer for no longer than 60 days. A form with this approval is kept on file in both the Academic Affairs office and the Financial Aid office.

**Appeal Process** If a student wishes to appeal a satisfactory academic progress decision, he/she must do so in writing and present it to the Academic Progress Committee in order to be considered for eligibility of financial aid and to continue under his/her current program of study. A student who wishes to appeal a satisfactory academic progress decision may have special or mitigating circumstances such as a death of a relative, injury, illness, etc. The student must explain what type of circumstances contributed to the unsatisfactory academic progress, as well as what has changed in the student's situation that would result in the achievement of progress. This explanation must be documented and will be considered in the appeal.

An appeal of the satisfactory academic progress decision will be taken to the Academic Progress Committee which consists of the faculty advisor in the student's program area, the Academic Affairs Officer, the Director, the Director of Education, the Student Records Coordinator, and the Financial Aid Director. The results of the appeal will be given to the student and to the Financial Aid office.

A student whose appeal has been granted will then be placed on Academic Probation. The student will then remain on Academic Probation for one quarter as outlined under the Academic Probation section above. In addition, the student on Academic Probation must meet all the requirements as outlined in the Academic Probation section and in Table 2 above as well as meet the Financial Aid SAP standards as stated previously in the "Financial Aid" section of the handbook.

**Students will be notified via their South Hills email account of the results of a Satisfactory Academic Progress evaluation that negatively impacts their eligibility for any financial aid.**

**Reinstatement Procedure** Students who have been dismissed from school for reasons other than receiving an Academic Warning and a subsequent Academic Probation; and wish to be reinstated as diploma or ASB/AST degree candidates must reapply for school and attend school as a certificate student. If the student demonstrates, after completing additional coursework and achieving a minimum GPA and cumulative GPA of 2.0, and demonstrates that he/she is motivationally prepared to continue in the program, the student may be reinstated as a diploma or ASB/AST student. To be reinstated, the student must also meet all of the requirements of satisfactory academic progress as outlined above. In no case can any student exceed one and one-half times the standard program length and receive the original academic credential (diploma or ASB/AST degree) for which he or she enrolled (see Table 1). The Academic Affairs Officer must approve reinstatement, which is based on evaluations made by instructors familiar with the student's work.

## Program/Course Revisions . . .

Programs are reviewed annually by the Director, Director of Education, and faculty directly involved with the program. The impetus to change often starts with the faculty and/or internship supervisors who are in contact with employers.

All course revisions are made by the instructor with direction from the other faculty and Director of Education. The revised syllabi are kept electronically on CourseWeb.

Group meetings are held with the faculty associated with the program or course area and the Director of Education. Once a consensus is achieved, the change is implemented in the next year. The revisions are sent to the State Board of Private Licensed Schools and then to our accrediting agencies. Once approval is received, PHEAA and other applicable agencies are notified and an addendum is attached to the catalog.

Current students are notified and given a copy of the revised program which is more up to date and reflects the needs expressed by employers. All changes made after a student has signed an enrollment agreement must be accepted by the student and a new curriculum is placed in each student's file.

## Student Activities and Organizations . . .

**Ambassadors.** South Hills Ambassadors are members of a service organization who represent the school on campus, in the community, in the workplace, and at high schools. The primary mission of the Ambassadors is to endorse the educational, personal, and professional benefits of being a part of the South Hills School community. Ambassadors assist with various office tasks and school events including orientation, group visits, career and job fairs, internship luncheons, and graduations. Membership is open to all students in all majors. (All locations)

**Club IT.** Club IT offers students the opportunity to build their computer skills through interaction with the community around them. Club IT also provides students with the opportunity to gain additional knowledge as well as networking opportunities within the local business community. The club shows students ways in which the skills they are learning apply to the real world and gets them accustomed to working with end-users. Membership is open to students in all majors. (All locations)

**C.O.P.S.** C.O.P.S. was formed in 2009 and stands for Community Outreach and Public Service Club. The idea of creating a Criminal Justice club was formed by first- and second-year Criminal Justice students. Student members vote on a governing body at the beginning of the school year to help run the club more efficiently. Students will have the opportunity to be proactive with community service projects during and after school. They work together as a group to accomplish their club goal. Membership is open to students who are enrolled in the Criminal Justice program, and who are in good academic standing. (All locations)

**Health Careers Club.** Health Careers Club provides a unique program of leadership development, motivation, and recognition exclusively for students pursuing health care careers. The Health Careers Club will help plan and organize sponsored events, providing educational opportunities for students enrolled in allied health programs and work with faculty advisors on activities and meetings. Membership is open to students who are enrolled in allied health programs. (Altoona and State College)

**Phi Beta Lambda.** Phi Beta Lambda is an association of students preparing for careers in business-related fields. PBL promotes a sense of civic and personal responsibility and develops leadership skills. The members compete in state and national competitions and perform civic duties such as organizing blood drives and promoting school spirit. PBL strives to help students focus on business connections and community connections throughout the school year. Membership is open to students in all majors. (All locations)

**Student Forum.** Student Forum plays an important role in our students' lives. The group acts as a sounding board for the student body. It was formed in March 1975 as the Student Council. In 1985 the name was changed to Student Forum. The Forum sponsors cultural, educational, and recreational events throughout the year. Student Forum provides a channel of communication between students and the administration. Membership is open to students in all majors. (Altoona and State College)

**Tutors.** Tutors are current students volunteering their time to help other South Hills students with their academic progress throughout the school year. The student Tutors and the faculty work together assisting current students with their courses. Tutors provide tutoring in a variety of courses. Membership is open to students in all majors. Students must maintain a B or above in the course(s) for which they tutor. (Lewistown and State College)

**Yearbook.** The Yearbook club offers students a chance to publish a book reflecting their time at South Hills. The club also builds skills in layout and design, editing and proofreading, photography, marketing, advertising, and sales. The club provides current students the opportunity to build friendships within the student body and the community. The yearbook serves as a memorable keepsake and networking tool for future events. Membership is open to students in all majors. (Lewistown)

**Circle K International.** Circle K International develops college and university students into a global network of responsible citizens and leaders with a lifelong commitment to service. Members focus on making their campus and community better places in which to live and work. The goals are: to learn the importance of voluntarism and altruism in the world; to discover and develop leadership talents and skills that will be used in a future career and professional position; to apply concepts learned in the classroom to everyday situations when planning/organizing a project or event; to network with professional people in similar fields of interest through interaction with members of the sponsoring Kiwanis Club; to increase opportunities for scholarships for future education; and to increase professional training in areas such as membership recruitment, leadership skills, public relations, and organization through attendance at conventions and conferences. (Lewistown)

**Alumni Association.** The South Hills Alumni Association was formed for the graduates of South Hills. With over 5,000 alumni from four locations, the Association continues to grow. A bi-annual alumni on-line newsletter published by the Association provides valuable news, profiles, and opportunities for continuing education and professional growth. Staying connected to South Hills helps strengthen professional and personal networking and provides inspiration to current students. Membership is open to all graduates of South Hills School of Business & Technology.

## Student Store . . .

**State College.** The South Side Student Store offers South Hills apparel, school supplies, food, and drink items as well as specialized products for various clubs and organizations within the school. To make a purchase, visit The South Side Student Store.

**Lewistown.** South Hills T-shirts, sweatshirts, and book bags are on display in the office. To purchase one, see the Gloria Kline.

**Altoona.** South Hills T-shirts, sweatshirts, and bags are on display in the main entrance area. To purchase any of these items, see Hope Ray.

## Library . . .

South Hills School subscribes to an on-line resource that students may access from all school locations or from home. "Ebrary" features a growing selection of more than 80,000 multi-disciplinary titles which are available to any number of students at the same time. This electronic service also provides powerful tools for information discovery and management for research projects.

The South Hills "Virtual Library" is a centralized list of links to give students quick and easy access to many electronic resources such as dictionaries, encyclopedias, software tutorials, newspapers, magazines, scholarly journals, mp3 files, e-books, federal census records, and more. With 24/7 access from any Internet connection, the South Hills Virtual Library is available at any time from the school website or at: [www.southhills.edu/virtualLibrary](http://www.southhills.edu/virtualLibrary).

All students have access to Penn State University's Library (Curtin Road-PSU), Schlow Memorial Public Library (211 South Allen Street, State College), and the Centre County Library (200 North Allegheny Street, Bellefonte).

**State College.** The open shelf library in Room 13 contains over a thousand volumes of textbooks, general academic and business resources along with standard reference works. Periodicals, weekly magazines and newspapers are also available to students. Listings of other online library, digital source and helpful library tools are kept in the library for reference. Books may be checked out for a two-week period of time. See Joan Andrews for library assistance.

The Diagnostic Medical Sonography program houses many curriculum-related textbooks and other academic resource material at the Cato Park building.

**Lewistown.** The Mifflin County Library is located within walking distance of the school (123 North Wayne Street). The Library provides students with a selection of over 90,000 books and periodicals to choose from. Materials may be checked out for a two-week period. ([www.mifflincountylibrary.org](http://www.mifflincountylibrary.org))

The open-shelf library at the school contains textbooks, general academic, and business sources. Periodicals and back issues of newspapers are kept in the library. Books may be borrowed for three weeks.

The school also provides Internet connections, which offers access to databases and reference materials throughout the world. You may see the librarian, Steve Russell, for assistance.

**Altoona.** The school library contains over 1,000 volumes of textbooks, general academic and business sources, and standard reference works. Various other general and business periodicals are also available. A small collection of videos, CDs, and audio books are maintained in the main office area by Hope Ray, Librarian.

Please follow the directions for use of library materials posted inside the library.

The School provides Internet connections, which offer access to databases and reference materials through the World Wide Web.

The Altoona Public Library is located at 1600 5<sup>th</sup> Avenue. The library contains over 230,000 books and periodicals to choose from. The library is open Monday through Thursday, 8:30 a.m. to 9:00 p.m., Friday 8:30 a.m. to 5:00 p.m., Saturday 9:00 a.m. to 5:00 p.m., and Sunday 1:00 p.m. to 4:00 p.m. (1600 5<sup>th</sup> Avenue), [www.altoonalibrary.org](http://www.altoonalibrary.org).

## Internship Policy . . .

A student enters into an internship only upon completion of all course work or in the term which the internship is scheduled while simultaneously completing limited course requirements. No student may begin an internship until he/she has successfully completed all major courses through the fifth term (six-term programs) or the sixth term (seven-term programs) with a "C" or better grade. A "D" is acceptable only in a terminal major course where a "D" is permissible. A student must have a 2.0 cumulative grade-point average to go on internship.

Any exception made to the above policy will be determined by a joint decision of the faculty advisor of the intern, the internship committee, and the Director.

## Graduation and Graduation Requirements . . .

Graduation exercises are held in June and September of each year. Graduation standards include:

- Students enrolled in diploma and associate in specialized business or associate in specialized technology degree programs are required to have a 2.0 (C) cumulative grade-point average in order to graduate from South Hills School of Business & Technology.
- Students must have completed the program of study for which they are enrolled with a minimum of a "C-" grade in major courses. "D" grades in major courses must be repeated with a minimum of a "C-" grade. If a student changes his/her curriculum, it will be necessary for him/her to repeat any course for which he/she receives a "D" grade which is a major course in the new program.
- Students enrolled in the Health Information Technology program must earn a "C-" or better in ALL course in order to graduate. This requirement also applies to the student's eligibility to sit for the Registered Health Information Technology (RHIT) examination. Students earning less than a "C-" would have to repeat the course or courses before they earn their associate degree in this field or take the RHIT examination.
- Students enrolled in any of the sonography programs must complete all coursework with a minimum of a "C" or better in ALL courses in order to graduate.
- Students are required to have completed the total credits and clock hours listed for their diploma/degree programs. No student will be permitted to participate in the graduation ceremony until all course, credits, and hours are completed.
- Students are required to pay the full balance of tuition and charges due the school prior to graduation in order to be eligible for awards or to participate in the graduation ceremony.

An Associate in Specialized Business Degree (ASB) will be issued to those students completing ASB degree programs who have met the standards listed above.

An Associate in Specialized Technology Degree (AST) will be issued to those students completing AST degree programs who have met the standards listed above.

A diploma will be issued to those students completing diploma programs who have met the standards listed above.

A certificate of achievement is issued to a student taking one or more of the listed diploma or ASB/AST degree classes who have attained the standards above.

## Honors and Awards . . .

### Academic Awards

Students achieving a cumulative grade-point average of 3.75 or above will graduate with highest honors. Those achieving a cumulative grade-point average of 3.5 to 3.74 will graduate with honors.

The Karen Louise Weber Memorial Award was established by the students and faculty in memory of a graduate. The award is presented to the graduate with the highest academic achievement in the Medical Office Specialist program.

The Travis W. Mellott Memorial Award was established for the Business Administration – Accounting program.

The Kristi Joann Taylor Memorial Award is given to the Administrative Professional graduate with the highest academic standing in the class.

In Business Administration – Management & Marketing, the Earl P. Strong Memorial Award is given. Dr. Strong was the third director of South Hills School.

The Terry French Memorial Award was established for the Information Technology program. Terry was an instructor at South Hills.

South Hills School of Business & Technology Awards are given in all other program areas.

In order to be eligible to receive any of the academic awards, a minimum of a 3.5 cumulative grade-point average must be achieved.

### Community Awards

The JoAnn M. Bonfatto Memorial Award was established in 2001 by her husband, Francis Bonfatto of Bellefonte. This memorial award is in memory of a former employee. Faculty/staff members are asked to nominate a graduating student. The list of nominees then goes to a graduation committee where a recipient is chosen that typifies the following attributes: enthusiasm, willingness to help others, friendly and cheerful personality, dependability, and initiative. (State College, Lewistown)

The Ray Houseman Award was established in 2010 in memory of our former instructor, mentor, and friend. The recipient of this award is the graduate who has consistently displayed Ray Houseman's best qualities: his dependability, his friendly and cheerful personality, and most of all, his willingness to help others. Graduating students from each program nominate a graduating student of his/her major. A ballot is then distributed to faculty/staff members to choose the recipient. (Altoona)

## Brush-up Privileges . . .

Brush-up privileges for all courses taken at South Hills School are offered without charge to all South Hills School of Business & Technology graduates who at some future time may need refresher practice. The offer is subject to the limitations of space, priority going to those who are enrolled at the time the graduate applies.

## Veterans Regulations . . .

All students receiving assistance from the Veterans Administration are subject to the following policies:

Absence. A student should notify the school of his/her absence and the cause preferably before the first class in the morning. If the student must leave the school early or arrives late, he/she is required to sign in or out at the main desk.

Repeated absences or late arrival for class will necessitate the student to meet with the school Director or Academic Affairs Officer to discuss the student's willingness to continue in the program. Excessive absences could result in dismissal.

Unsatisfactory Progress. Students receiving failing grades are placed on probation for 60 days. If unsatisfactory progress continues beyond the probationary period, the student's training will be immediately interrupted and all concerned will be notified accordingly. Students dismissed because of unsatisfactory progress may apply for re-entrance; however, each case will be considered on the basis of the facts involved.

Credit for Previous Education and Training. Appropriate credit is given for comparable previous education and training, and the training period will be adjusted accordingly.

## Accreditation and Approvals . . .

### Accredited by:

The Accrediting Council for Independent Colleges and Schools, 750 First Street, NE, Suite 980, Washington, DC 20002-4241, 202-336-6780, to award diplomas, associate in specialized business and associate in specialized technology degrees.

### Licensed by:

Commonwealth of Pennsylvania, Department of Education, Division of Occupational Schools, 333 Market Street, Harrisburg, PA 17126-0333, 717-783-8228.

### Approved by:

The Secretary of Education, Commonwealth of Pennsylvania, to award the Associate in Specialized Business (ASB) and Associate in Specialized Technology (AST) Degrees

Commonwealth of Pennsylvania, Department of Education for training Veterans

Commonwealth of Pennsylvania, Office of Vocational Rehabilitation, for the training of rehabilitation students

Pennsylvania Higher Education Assistance Agency (PHEAA) for Grants and Loans

Department of Health, Education and Welfare for the Pell (Federal) Grant Program

Health Information Technology Program at the State College and Altoona Campuses is accredited by the Commission on Accreditation for Health Informatics and Information Management (CAHIIM) in cooperation with the sponsoring professional organization, the Health Information Management Association (AHIMA). Graduates are eligible to apply to sit for the national qualifying examination as a Registered Health Information Technician (RHIT).

The Diagnostic Medical Sonography AST degree program, the Diagnostic Medical Sonography Professional diploma program, and the Diagnostic Medical Sonography Professional Plus diploma program are accredited by the Commission for Accreditation of Allied Health Education Programs (CAAHEP). Graduates are eligible to sit for the ARDMS certification examinations immediately upon completion of the program. Students are eligible to sit for the ARDMS Sonography Principles and Instrumentation examination during the last term of the program.

The Medical Assistant program at the State College campus is accredited by the Accrediting Bureau of Health Education Schools (ABHES). Students are eligible to sit for the Certified Medical Assistant exam through the American Association of Medical Assistants (AAMA).

Real estate courses (Real Estate Fundamentals and Real Estate Practice) approved by the Pennsylvania Real Estate Commission for students sitting for the sales exam

### Authorized by:

Federal law for enrollment of nonimmigrant alien students

## Memberships . . .

South Hills School of Business & Technology or individual staff are members of:

Allegheny Mountains Convention and Visitors Bureau  
Altoona/Blair County Development Corporation  
American Academy of Procedural Coders (AAPC)  
American Association of Medical Transcription (AAMT)  
American Bar Association  
American Health Information Management Association  
American Registry of Diagnostic Medical Sonographers Certification Committee  
American Society of Echocardiography  
American Society for Engineering Education  
Bedford County Chamber of Commerce  
Bellefonte Intervally Area Chamber of Commerce

Blair County Chamber of Commerce  
Blair County Employer Advisory Council  
Centre County Bar Association  
Centre County Convention & Visitors Bureau  
Central Pennsylvania Health Information Management Association (CHIMA)  
Chamber of Business & Industry of Centre County  
Clearfield Chamber of Commerce  
Cold Stream Recreation Foundation  
Dubois Chamber of Commerce  
Eastern Business Education Association  
Greater DuBois Chamber of Commerce  
Greater Johnstown/Cambria County Chamber of Commerce  
Health Occupations Students of America (HOSA)  
Human Resource Association of Centre County  
Human Resource Management Association of Blair County  
Huntingdon County Chamber of Commerce  
International Association of Administrative Professionals  
Lion Country Visitors & Convention Bureau  
Mid-State Literacy Council  
Moshannon Valley Economic Development Partnership  
National Business Education Association (NBEA)  
Northeastern Association of Two-Year Colleges  
Pennsylvania Association of Private School Administrators (PAPSA)  
Pennsylvania Association of Student Financial Aid Administrators (PASFAA)  
Pennsylvania Bar Association  
Pennsylvania Business Education Association (PBEA)  
Pennsylvania Health Information Management Association (PHIMA)  
Perry County Chamber of Commerce  
Phi Beta Lambda (PBL)  
Philipsburg YMCA  
Philipsburg Kiwanis  
Philipsburg Revitalization Corporation, Inc.  
Philipsburg Rotary  
Society for Human Resource Management  
Society for Clinical Coding  
Society of Diagnostic Medical Sonographers  
Society of Manufacturing Engineers  
State College Area Family YMCA  
State College Rotary Club  
Susquehanna River Valley Visitors Bureau  
Tyrone Area Chamber of Commerce

## Corporate Officer . . .

South Hills School of Business & Technology was incorporated in 1970 under the name of South Hills Secretarial School, Inc. The school operated under the name of South Hills Business School from 1973-1997. Maralyn J. Mazza is the corporate President.

## Appeals Process . . .

Should the student or his/her parent(s) or guardian(s) have questions or concerns or wish to counteract a decision at South Hills School of Business & Technology, he/she/they may go through the following appeals route: (1) the teacher, (2) the advisor, (3) the Academic Affairs Officer, (4) the school Director, (5) the President of South Hills School of Business & Technology.

The school is licensed by the State Board of Private Licensed Schools. Questions or concerns that are not satisfactorily resolved through the appeals process listed above may be brought to the attention of the State Board of Private Licensed Schools, 333 Market Street, Harrisburg, PA 17126-0333 or to our accrediting agency, Accrediting Council for Independent Colleges and Schools, 750 First Street, NE, Suite 980, Washington, DC 20002-4241, 202-336-6780.



## Advisory Boards . . .

### Altoona

#### Business Programs

Jessica Minnoia , SHSBT Class of 2004  
Norman Callan, Esq.  
Attorney at Law  
Rona Kocik, SHSBT Class of 2009  
Linda Stotler, Communication Director  
Blair County Chamber of Commerce  
Jennifer Fleck, Marketing Manager  
Explore Altoona  
Dan Danity, SHSBT Class of 2005  
NPC, Inc.  
Angela Whitstine, Executive Director  
Blair County Tax Collection Bureau  
Cindy Sollenberger, Accountant  
Altoona Area School District  
Kathy Dickensen, Juvenile Probation Officer  
Blair County Juvenile Probation Office  
Mitch Cooper, Sheriff  
Blair County

#### Information Technology

David Booher, SHSBT Class of 2010  
Penn Medical Informatics  
Michael Lingenfelter, Technology Coordinator  
Bellwood Antis School District  
Bryce Costler, Director of Technology  
Altoona Area School District  
Amanda Carper, SHSBT Class of 2011  
University of Pennsylvania – Main Campus  
Rebecca Brown, Clerical Associate III  
City of Altoona  
Pam Filer, Office Manager  
Dr. Donald G. Snyder, OD/Rich's Optical

#### Medical Assistant

Rose Lloyd, Human Resource Manager  
ClearMed Providers  
Cindy Casher, PA-C  
Central Pennsylvania Pain Management  
Deborah Aigner, CRNP  
Altoona Area School District  
Ann Marie Bomba, Practice Manager  
ENT Associates of Central Pennsylvania  
Sherri Stayer, Practice Manager, Altoona Lung Specialists

#### Allied Health

Diane Harris, Health Information Management Director  
Altoona Regional Health System  
Pamela Starr, Health Information Services Director  
Blair Medical Associates  
Joshua Sherkel, Health Information Management Director  
Nason Hospital  
Donna Brandt, SHSBT Class of 2006  
Altoona Regional Health System  
Patricia Geesey, Employment Coordinator  
Altoona Regional Health System  
Donna Yingling, Vice President, Product Portfolio Management  
Delta Health Technologies, LLC  
Michelle Scanlan, Director of Human Resources  
Home Nursing Agency

### Lewistown

#### Administrative Professional

Jill Haubrick, Admissions Assistant  
Juniata Valley Visitors Bureau  
Rhonda Walters, Admissions Assistant  
Juniata Valley Visitors Bureau  
Amy Wise, Executive Director  
Huntingdon County Business & Industry  
Kim Crone, Guidance Counselor  
Mifflin County School District

#### Allied Health

Chelsea Boyer, RN, Allied Health Curriculum Development  
MJCTC  
Maryann Brown, Director, School of Nursing  
Lewistown Hospital  
Tracey Carolus, Recruiter  
Lewistown Hospital  
Lori Eckley, Clinical Supervisor, Geisinger  
Mary Alyce Nelson, Assistant Director of Clinical Services and  
Director of Nursing  
The Pennsylvania State University, Health Services  
Nancy Records, Community Mobilizer  
Communities That Care  
Bridgette Kennington, Guidance Counselor  
Mifflin County School District  
Phyllis Palm, Retired  
Lewistown Hospital

#### Business Administration – Management & Marketing

Jim Felmlee, Self-Employed  
James Estep, District Superintendent  
Mifflin County School District  
David Krentzman, Director of Operations  
Krentzman Supply  
Robert Postal, Executive Director  
MCIDC  
James Tunall, President  
Chamber of Commerce/Juniata Valley Visitor's Bureau  
Tom Walker, Director  
Penn State Learning Center  
Jon Zimmerman, President and CEO  
ACE, Inc.  
Carol Shefrin, Company Director Community Services, TIU  
Community Education  
Career Link  
Valarie DeVecchis, Guidance Counselor  
Mifflin County School District

#### Criminal Justice

William Herkert, Chief  
Lewistown Police Department  
Lisa Bollinger, Clerk/Secretary  
Lewistown Police Department  
David Molek, District Attorney  
Mifflin County Court House  
Chris Shade, Mifflin County Sheriff  
Mifflin County Court House  
Bernie Zook, Warden  
Mifflin County Correctional Facility

#### Information Technology

Jarred Dressler, Tech Bridge  
Henkel & McCoy  
Scott Falkner, President  
Falkner Technology  
Amy Hart, Instructor  
Mifflin County High School  
Dan Seeley, Sr., Manager of Sales Operations  
Schoolwires, Inc.

### State College

#### Administrative Professional

Lora Beamenderfer, SHSBT Career Services  
Ann Davis, SHSBT Admissions Assistant  
Brenda Harrison, Administrative Assistant  
U.S. Army Corps of Engineers  
Peggy Reams, SHSBT, Assistant, Corporate Training  
Tracey Noviello, Executive Assistant, Glenn O. Hawbaker  
Karen Donovan, SHSBT Instructor  
Sharon Rivell, SHSBT Instructor  
Susan Wise, SHSBT Instructor

#### Business Administration – Accounting

Susan Wilt, Director of Operations  
Locus Microwave  
Jessica Casner, Accounting Specialist  
TransducerWorks

Natasha Goff, Staff Accountant I  
Graymont  
Jodi Crosson, Bookkeeper  
Continental Real Estate  
Jennifer Muchinsky, Accountant Aide  
The Pennsylvania State University, Department of Health and  
Human Services  
Melissa Elliott, Shaner Group  
Brenna Shutika, SHSBT Instructor  
Wendy Eismont, SHSBT Instructor

#### **Business Administration – Management & Marketing**

Michael Keller, Multimedia Specialist  
The Pennsylvania State University, Office of Human Resources  
Katelyn Long, Employer Relations & Development Assistant  
The Pennsylvania State University, Career Development and  
Placement Office  
Kerry Small, President  
Legacy Logistics  
Diana Stapleford, General Manager  
Magnum Broadcasting  
Tom Bruce, Sales Manager  
Centre Chemical Inc.  
Michael Gates, SHSBT Instructor

#### **Criminal Justice**

Rick Payton, Private Investigator  
Payton & Associates  
Kim Wood, Director  
Stepping Stone Transitional Living  
John Aston, Detective  
State College Police  
Steve Godfrey, Drug and Alcohol Counselor  
Quehanna Boot Camp  
Jodi Morelli, Program Coordinator  
Big Brother/Big Sister  
Jen Stover, SHSBT Instructor  
Sarah Stoltz, SHSBT Instructor  
John McCullough, SHSBT Instructor  
Venus Shade, SHSBT Instructor

#### **Engineering Technology**

Glenn Strouse, Drafter  
Nittany Building Specialties  
George Dick, Survey Technician  
Knapka Surveying  
John Nicholas, CAD Specialist/Environmental Technician  
DMS Environmental Services  
Karen Hughes, SHSBT Instructor  
Gary Powers, SHSBT Instructor  
John Henry, SHSBT Instructor  
Heather Fink, SHSBT Instructor

#### **Graphic Arts**

Jennifer Norton, Art Director  
Penn State Press  
James Lukens-Gable, Art Director  
Multimedia & Press Center, The Pennsylvania State University  
Doug Irwin, Graphic Designer,  
The Pennsylvania State University, Housing & Food Services  
Dennis Maney, Multimedia Specialist  
The Pennsylvania State University  
Steve Kress, Chief Designer  
Penn State Press  
Bill Brickley, Creative Director  
Printers.com  
Nathan Valchez, Graphic Designer  
Minitab  
Ron Shroyer, Retired  
Chris Kegg Swanson, Freelance Designer  
Ray Liddick, SHSBT Instructor  
Jim Colbert, SHSBT Instructor

#### **Health Information Technology**

Lynn Hall, RHIT, Director of HIM  
Centre Crest  
Dana Price, RHIT, Director of HIM  
The Meadows

Kristen Alexander, RHIT, Supervisor  
Penn State Hershey  
Lisa Witt, RHIT, Supervisor of Medical Records  
The Pennsylvania State University, University Health Services  
Kay Strigle, RHIA, SHSBT Instructor

#### **Information Technology**

James McKenna, IT Division Manager  
X-pert Communications  
John Stitzinger, Consultant  
Centre of the Web and Innoblu  
Rusty Myers, System Administration  
The Pennsylvania State University, Information Technology Services  
John Cieply, SHSBT Instructor  
David Whitmarsh, SHSBT Instructor

#### **Medical Assistant**

Traci Evans, Office Manager  
State College Urologic Association  
Carol Ruth Hyle, Office Manager  
Advanced Regional Center for Ankle and Foot Care  
Lori Eckley, Clerical Supervisor  
Geisinger  
Deborah Aigner, CRNP-ACCESS Coordinator  
Altoona Area School District  
Georgette Sauserman, Externship Coordinator or  
Megan Garne, Office Assistant  
Office of Dr. Bert Altmanshofer  
Carol Haywood, Office Manager  
ClearMed Provider (Clearfield Hospital)  
Shannon Hillard, Director of Nursing,  
Mount Nittany Physician Group  
Crystal Douglas, SHSBT Instructor

#### **Medical Office Specialist**

Mary Bressler, Revenue Cycle Manager,  
Mount Nittany Physician Group  
Laurie Hall, Manager  
Organizational Development, University Orthopedics Center  
Sonya Witmer, Senior Quality Informatics Specialist,  
Penn State Hershey Medical Center  
Lori Eckley, Site Supervisor,  
Geisinger Medical Group  
Gail Brown, MOA2 Supervisor,  
Penn State Hershey Medical Group  
Brenda Ream Stover, SHSBT Instructor

## **Administration and Staff . . .**

### **State College (Main Campus)**

**Maralyn J. Mazza, President**  
B.A., Bates College

**Gina Mazza, Vice President and Director of Marketing**

Diploma, Art Institute of Philadelphia

**Mark Maggs, Director**

B.S., Lock Haven University

**David Schaitkin, Director of Education**

M.B.A., Bloomsburg University

B.A., Boston University

**Carolyn L. Hettich, Assistant to the Director**

Diploma, South Hills School of Business & Technology

**Susan Vidmar, Assistant to the Director of Education**

B.A., The Pennsylvania State University

**Susan Lynch, Regional Director of Admissions**

M.S., East Stroudsburg University

B.S., Shippensburg University

**Vickey A. Warshaw, Admissions Representative**

**David Andrus, Admissions Representative**  
A.S.B., Newport Business Institute

**Brittani Bell, Admissions Representative**  
A.S.B., South Hills School of Business & Technology

**Dennis C. Lingenfelter, Recruiting Coordinator**  
B.S., The Pennsylvania State University

**Anne Falk, Director of Financial Aid**  
B.Ed., University of New Brunswick  
Diploma, Atlantic Business College

**Andrew Ritzman, Financial Aid Assistant**  
A.S.T., South Hills School of Business & Technology

**LeRoy Spicer, Financial Aid Assistant**  
A.S.T., South Hills School of Business & Technology

**Jennifer Palmer, Financial Aid Assistant**

**Robin Weikel, Bursar**  
B.S., Susquehanna University  
Associate Degree, Williamsport Area Community College

**Trudy R. Musser, Assistant to the Bursar**  
Diploma, South Hills School of Business & Technology

**Bobby Smith, Assistant to the Bursar**  
A.S.B., South Hills School of Business & Technology

**Joan L. Andrews, Advisor Program and Public Relations  
Coordinator/Library Assistant**  
B.A., State University College, Potsdam, NY

**Jacqueline M. Edwards, Academic Affairs Officer**  
B.F.A., The Pennsylvania State University  
M.Ed., The Pennsylvania State University

**Sandra J. Gibble, Academic Affairs Officer**  
M.B.A., University of Pittsburgh  
B.A., The Pennsylvania State University

**Rachel Yoder, Student Records Coordinator**  
A.S.B., South Hills School of Business & Technology

**Ellen Gilpatrick Spinelli, Career Services Coordinator**  
B.S., The Pennsylvania State University

**Lora Beamenderfer, Career Services Assistant**  
A.S.B., South Hills School of Business & Technology

**Maryann F. Lingenfelter, Student Services Coordinator**  
B.S., The Pennsylvania State University

**Joshua Lee, Student Services Assistant**  
A.S.B., South Hills School of Business & Technology

**Jean J. Cole, Student Services**  
B.S., The Pennsylvania State University

**Matthew R. Musser, Information Technology  
Manager**  
Certificate, South Hills School of Business & Technology

**Michele H. Lucas, MCSE, Systems Administrator**  
A.S.B., South Hills School of Business & Technology

**Jodie LeMaster, Webmaster**  
A.S.T., South Hills School of Business & Technology

**Ralph J. Catherman Jr., Network Administrator**  
A.S.T., South Hills School of Business & Technology

**Jeremy L. Hoffman, IT Support Specialist**  
A.S.T., South Hills School of Business & Technology

**Ann E. Davis, Admissions Coordinator**  
A.S.B., South Hills School of Business & Technology

**Anja C. Lucas, Receptionist**

**Cindy Crater, Cafeteria Manager**

### Altoona

**Holly Emerick, Altoona Director**  
B.S., Mount Aloysius College  
M.Ed., St. Francis University  
A.S.T., South Hills School of Business & Technology

**Joan K. Grassi, Director of Financial Aid**  
A.S.B., Altoona School of Commerce

**Joan S. Grassi, Financial Aid Coordinator**  
A.S.B., South Hills School of Business & Technology

**Todd Estright, Financial Assistant**  
A.S.T., South Hills School of Business & Technology

**Hope A. Ray, Career Services Coordinator/Library Assistant**  
A.S.B., South Hills School of Business & Technology

**Kelly Guenot, Admissions Representative**  
A.A., University of Phoenix

**James Swope, Admissions Representative**  
A.S.B., South Hills School of Business & Technology

**Patricia D. DeRosa, Academic Affairs**  
A.S.B., Altoona School of Commerce

**Jodi L. Jeffries, Network Administrator**  
A.S.T., South Hills School of Business & Technology

### Lewistown

**Barbara E. Harer, Lewistown Director**  
A.S.B., South Hills School of Business & Technology  
A.S.T., South Hills School of Business & Technology

**Brenda L. Woodward, Admissions Coordinator**  
B.A., Indiana University of Pennsylvania

**Steven Russell, Financial Aid Assistant**  
A.S.B., South Hills School of Business & Technology

**Christine Sulouff, Academic Affairs Assistant**  
A.S.B., South Hills School of Business & Technology

**Gloria Kline, Office Manager**  
Diploma, South Hills School of Business & Technology

### Learning Solutions Center

**Jeffrey P. Stachowski, Training Coordinator**  
B.S., The Pennsylvania State University

**Margaret Reams, Assistant, Corporate Training**  
A.S.B., South Hills School of Business & Technology

## Faculty . . .

### State College

**John Cieply**  
A.S., Rochester Institute of Technology  
B.S., Rochester Institute of Technology  
Teaching Area: Computer Technology

**James Colbert**

A.S.T., Art Institute of Pittsburgh  
Teaching Area: Graphic Arts

**M. David Coopey**

B.S., The Pennsylvania State University  
B.S., Bloomsburg State College  
Teaching Area: Accounting and Computer Technology

**Karen Donovan**

B.S., Indiana University of Pennsylvania  
B.S., The Pennsylvania State University  
Teaching Area: Office Technology

**Crystal Douglas**

A.S., Mount Aloysius College  
Diploma, Mount Aloysius College  
Teaching Area: Allied Health

**Wendy Eismont**

B.S., The Pennsylvania State University  
Teaching Area: Accounting

**Pam Santavicca Ferguson**

B.A., Rutgers University  
M.Ed., Rutgers University  
Teaching Area: English and Humanities

**Heather Fink – Adjunct Instructor**

A.S., Pennsylvania College of Technology  
Teaching Area: Engineering Technology

**Michael E. Gates**

B.S., The Pennsylvania State University  
Teaching Area: Business

**Mark Gentzel**

B.S., Lock Haven University  
M.Ed., The Pennsylvania State University  
Teaching Area: English and General Education

**Rick Gority – Adjunct Instructor**

B.A., The Pennsylvania State University  
Teaching Area: Graphic Arts, Computer Technology

**Michael Hample – Adjunct Instructor**

Teaching Certificate, The Pennsylvania State University  
Emergency Dispatch Instructor, National Academy of Emergency Dispatch  
PA State Police Certification, PA State Police  
Lethal Weapons Training Act – Agent, Commonwealth of PA  
Teaching Area: Criminal Justice

**John Henry – Adjunct Instructor**

B.S., The Pennsylvania State University  
Teaching Area: Engineering Technology

**Karen M. Hughes**

B.S., East Tennessee State University  
Teaching Area: Engineering Technology

**Elizabeth Ladrado, RDMS, RVT**

Diploma, South Hills School of Business & Technology  
B.S., The Pennsylvania State University  
Teaching Area: Diagnostic Medical Sonography

**Beth A. Lampe, RDMS, RDCS**

B.S., The Pennsylvania State University  
Certificate, Maryland Institute of Ultrasound Technology  
Teaching Area: Diagnostic Medical Sonography

**Salvatore LaRusso, RDMS, RT(R) – Adjunct Instructor**

M.Ed., St. Joseph's College of Maine  
B.S., Thomas Jefferson University  
A.A., Keystone College  
Teaching Area: Diagnostic Medical Sonography

**Ray Liddick**

B.F.A., Tyler School of Art, Temple University  
B.A., Tyler School of Art, Temple University  
Teaching Area: Computer Technology and Graphic Arts

**Eleanor Martin – Adjunct Instructor**

B.A., Kent State University  
Teaching Area: Business and Career Development

**James Thomas Masullo Jr.**

Ph.D., The Pennsylvania State University  
M.A., The Pennsylvania State University  
B.S., The Pennsylvania State University  
Teaching Area: English

**Cynthia Mazzant – Adjunct Instructor**

M.A., New York University  
B.A., Slippery Rock College  
Teaching Area: General Education

**John M. McCullough – Adjunct Instructor**

M.S., Bryn Mawr College  
B.S., Ursinus College  
Teaching Area: Criminal Justice and General Education

**Pamela G. Meister, RN**

B.S.N., York College of Pennsylvania  
Teaching Area: Allied Health

**Gary Powers**

M.S., Pepperdine University  
B.S., U.S. Naval Academy  
Teaching Area: Engineering Technology

**Sharon A. Rivell**

M.Ed., The Pennsylvania State University  
B.S., The Pennsylvania State University  
Diploma, DuBois Business College  
Teaching Area: Office Technology

**Keith Robb – Adjunct Instructor**

B.S., The Pennsylvania State University  
M.S., Shippensburg University  
Teaching Area: Criminal Justice

**Brenna Shutika**

B.S., The Pennsylvania State University  
Teaching Area: Accounting

**Eric Smith – Adjunct Instructor**

J.D., Widner University School of Law  
B.A., The Pennsylvania State University  
Teaching Area: Real Estate and Law

**Sarah Stoltz**

B.A., Mount Aloysius College  
J.D., The Pennsylvania State University  
Teaching Area: Law

**Brenda Ream Stover, RHIT, CCS**

A.A., Hagerstown Medical Secretarial School  
A.S.B., South Hills Business School  
Teaching Area: Allied Health

**Jennifer L. Stover**

B.S., The Pennsylvania State University  
M.Ed., Lock Haven University of Pennsylvania  
Teaching Area: Criminal Justice

**Kay A. Strigle, RHIA**

B.S., University of Pittsburgh  
Teaching Area: Allied Health

**Ingrid Thompson**

B.S., The Pennsylvania State University  
Teaching Area: Mathematics

**Greg Tressler, RT (R), RDMS**

A.R.D.M.S. Certification, Harrisburg Hospital of Radiologic Technology  
 R.T.(R) Certification, Magnetic Resonance  
 Imaging at Picker Radiology Technical Training Institute  
 Teaching Area: Diagnostic Medical Sonography

**Tricia Turner, RDMS, RVT**

B.S., The Pennsylvania State University  
 Diploma, South Hills School of Business & Technology  
 Teaching Area: Diagnostic Medical Sonography

**Susan Vidmar, Adjunct Instructor**

B.A., The Pennsylvania State University  
 Teaching Area: Career Development and General Education

**Paul R. Wagner, RDMS/CS, RVT**

A.R.D.M.S. Certification, Thomas Jefferson  
 University Hospital School of Diagnostic Ultrasound  
 B.S., The Pennsylvania State University  
 Teaching Area: Diagnostic Medical Sonography

**Ricky Wert – Adjunct Instructor**

A.S.T., South Hills School of Business & Technology  
 A.S. T., Electronics Institutes  
 Teaching Area: Computer Technology

**David C. Whitmarsh, III**

M.Ed., Westfield State University  
 B.A., Washington and Jefferson College  
 A.S.T., South Hills School of Business & Technology  
 Teaching Area: Computer Technology

**Stephanie R. Wilson, RVT, RDMS**

AST, South Hills School of Business & Technology  
 B.S., Oregon Institute of Technology  
 Teaching Area: Diagnostic Medical Sonography

**Susan J. Wise**

B.S., Bloomsburg State College  
 Teaching Area: Office Technology

**Sonya Witmer – Adjunct Instructor**

B.A., The Pennsylvania State University  
 A.S.B., South Hills School of Business & Technology  
 Teaching Area: Allied Health

**Altoona****Melisa M. Berardi, CMA (AAMA)**

B.S., St. Francis University  
 A.S., St. Francis University  
 Teaching Area: Allied Health

**Mary Beth Campion**

B.S., Western Connecticut State University  
 M.S., Capella University  
 Teaching Area: Criminal Justice

**Suzanne M. Feathers, CCA, LPN, MA, MHA**

M.H.A., University of Phoenix  
 L.P.N., Greater Altoona Career & Technology Center  
 Teaching Area: Allied Health

**Patricia A. Helbig**

B.S., St. Francis University  
 Teaching Area: Business and General Education

**Robert P. Helbig**

B.S., St. Francis University  
 Teaching Area: Accounting

**Jeffrey Joiner**

M.Ed., Harvard University  
 B.A., Harvard University  
 Teaching Area: Computer Technology

**Barbara J. Krause**

M.H.R.M., St. Francis University  
 B.S., St. Francis University  
 A.S.B., South Hills School of Business & Technology  
 Teaching Area: Accounting and Mathematics

**Louis Lombardi**

B.A., The Pennsylvania State University  
 J.D., Brooklyn Law School  
 Teaching Area: Law and Criminal Justice

**Amy E. Nimitz**

B.S., Indiana University of Pennsylvania  
 Teaching Area: English and Speech

**Mary M. Prorok, RN, MSN**

M.S., Indiana University of Pennsylvania  
 B.S.N., St. Francis University  
 A.S.N., Mount Aloysius Junior College  
 Teaching Area: Allied Health

**Guido J. Santella**

B.S., University of Delaware  
 Teaching Area: Computer Technology

**Barbara A. Seeger**

B.S., Lock Haven University  
 Diploma, Computer Learning Network  
 Teaching Area: Computer and Office Technology

**Kathy S. Seymore, GRI – Adjunct Instructor**

Licensed Real Estate Broker  
 Teaching Area: Real Estate

**Harry L. Smith**

B.S., Susquehanna University  
 Teaching Area: Business

**Kathy S. Waksmunski**

B.S., Indiana University of Pennsylvania  
 Teaching Area: Office Technology

**Sharon D. Wolfe, CCS, RHIA**

B.S., Stephens College  
 A.A.S., Northern Virginia Community College  
 Diploma, Altoona School of Commerce  
 Teaching Area: Allied Health

**Lewistown****Reana Donaldson**

M.B.A., University of Phoenix  
 B.A., Juniata College  
 Teaching Area: English

**Stephen Duseau**

M.B.A., State University of New York at Buffalo  
 B.S., State University of New York at Buffalo  
 Teaching Area: Business and Accounting

**John M. McCullough – Adjunct Instructor**

B.S., Bryn Mawr College  
 B.S., Ursinus College  
 Teaching Area: Criminal Justice

**Matthew Penning**

B.S., Liberty University  
 M.A., Webster College  
 A.A.S., Community College of the Air Force  
 Teaching Area: Computer Technology

**Venus Shade**

B.A., The Pennsylvania State University  
 M.S., Shippensburg University  
 Teaching Area: Criminal Justice and General Education

**Sarah Stoltz**

B.A., Mount Aloysius  
J.D., The Pennsylvania State University  
Teaching Area: Law

**Mary Stong**

M.A., Gonzaga University  
B.S., The Pennsylvania State University  
Teaching Area: Office Technology

**Emily Wible**

B.S., Central PA College  
A.S.B., Central PA College  
Teaching Area: Business

**Charles Wall IV**

B.A., Juniata College  
A.S.T., South Hills School of Business & Technology  
Teaching Area: Computer Technology

# Calendar

## **FALL TERM 2013**

August 26 & 27, 2013..... Orientation  
August 27, 2013..... Fall Term Begins  
September 2, 2013..... Labor Day  
October 7, 2013..... In-Service  
November 19, 2013..... Fall Term Ends

## **WINTER 2013-2014**

December 2, 2013..... Orientation  
December 2, 2013..... Winter Term Begins  
December 23, 2013..... Holiday Break Begins  
January 2, 2014..... Classes Resume  
March 5, 2014..... Winter Term Ends

## **SPRING TERM 2014**

March 17, 2014..... Orientation  
March 17, 2014..... Spring Term Begins  
April 18, 2014..... Holiday Break  
May 2, 2014..... In-Service  
May 26, 2014..... Memorial Day  
June 11, 2014..... Spring Term Ends

## **SUMMER TERM 2014**

June 16, 2014..... Summer Term Begins  
July 4, 2014..... Holiday Break  
August 25, 2014..... 10-Week Summer Term Ends  
September 9, 2014..... 12-Week Summer Term Ends

## **FALL TERM 2014**

August 26 and 27, 2014..... Orientation  
August 27, 2014..... Fall Term Begins  
September 1, 2014..... Labor Day  
October 10, 2014..... In-Service  
November 20, 2014..... Fall Term Ends

## **WINTER TERM 2014-2015**

December 1, 2014..... Orientation and Winter Term Begins  
December 24, 2014..... Holiday Break Begins  
January 2, 2014..... Classes Resume  
February 16, 2015..... Presidents' Day/In-Service  
March 4, 2015..... Winter Term Ends

## **SPRING TERM 2015**

March 13, 2015..... Orientation  
March 16, 2015..... Spring Term Begins  
April 3, 2015..... Holiday Break  
May 1, 2015..... In-Service  
May 25, 2015..... Memorial Day  
June 10, 2015..... Spring Term Ends

## **SUMMER TERM 2015**

June 15, 2015..... Summer Term Begins  
July 3, 2015..... Holiday Break  
August 24, 2015..... 10-Week Summer Term Ends  
September 8, 2015..... 12-Week Summer Term Ends

## **FALL TERM 2015**

August 24 & 25, 2015..... Orientation  
August 26, 2015..... Fall Term Begins  
September 7, 2015..... Labor Day  
October 12, 2015..... In-Service  
November 19, 2015..... Fall Term Ends

## **WINTER TERM 2015-2016**

November 30, 2015..... Orientation  
December 1, 2015..... Winter Term Begins  
December 24, 2015..... Holiday Break Begins  
January 4, 2016..... Classes Resume  
February 15, 2016..... Presidents' Day/In-Service  
March 3, 2016..... Winter Term Ends

## **SPRING TERM 2016**

March 15, 2016..... Orientation  
March 16, 2016..... Spring Term Begins  
March 25, 2016..... Holiday Break  
May 6, 2016..... In-Service  
May 30, 2016..... Memorial Day  
June 10, 2016..... Spring Term Ends

## **SUMMER TERM 2016**

June 13, 2016..... Summer Term Begins  
July 4, 2016..... Holiday Break  
August 22, 2016..... 10-Week Summer Term Ends  
September 6, 2016..... Summer Term Ends

## **FALL TERM 2016**

August 23 and 24, 2016..... Orientation  
August 25, 2016..... Fall Term Begins  
September 5, 2016..... Labor Day  
October 10, 2016..... In-Service  
November 18, 2016..... Fall Term Ends

## **WINTER 2016-2017**

December 1, 2016..... Orientation/Winter Term Begins  
December 23, 2016..... Holiday Break Begins  
January 3, 2017..... Classes Resume  
March 3, 2017..... Winter Term Ends

## **SPRING TERM 2017**

March 20, 2017..... Orientation/Spring Term Begins  
April 14, 2017..... Holiday Break  
May 29, 2017..... Memorial Day  
June 13, 2017..... Spring Term Ends

## **SUMMER TERM 2017**

June 19, 2017..... Summer Term Begins  
July 4, 2017..... Fourth of July  
August 28, 2017..... 10-Week Summer Term Ends  
September 12, 2017..... 12-Week Summer Term Ends

*Note: Commencement is held in June and September. Dates are announced at the beginning of each school year via the Student Planner.*

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Catalog addendums will be added as they are released and will appear after this page.



**SOUTH HILLS SCHOOL OF BUSINESS & TECHNOLOGY**  
**480 Waupelani Drive, State College, PA 16801-4516**

**Addendum #1 to 2013-2014 Catalog**

**CATALOG COVER PHOTOGRAPH**

*Photograph of students taken at a Career Fair held in State College.*

**ADMISSIONS REQUIREMENTS**

*The following replaces the bulleted admissions requirements as listed on page 3 of the 2013-2014 catalog.*

Admissions requirements are as follows:

- Interview
- High school diploma or equivalent, GED, or high school attestation.
- Successful completion of entrance assessment
- Application
- Completion of additional admissions requirements for Diagnostic Medical Sonography, Criminal Justice, and Medical programs.

**TUITION AND FEES**

*The following replaces a portion of the tuition and fees listed on page 12 of the 2013-2014 catalog.*

The total tuition for the 2014-2015 school year will be \$16,521 (three fulltime terms).

Cost Per Term

Student Status	Credits Carried	Tuition
Fulltime	12.0-17.0	\$5,507
Three-Quarter Time	9.0-11.5	\$4,142
Half-Time	6.0-8.5	\$2,777
Certificate	Varies	\$459 per credit

It is understood that if a student takes more than 17.0 credits or less than 6.0 credits per term, he/she will pay for those credits at the rate of \$459 per credit.

**Associate in Specialized Technology Degree Diagnostic Medical Sonography (DMS)** students will be charged the above rates for terms one through five. For terms six through nine, they will be charged as shown below. Diploma students in the DMS Professional program will pay the rates below for all terms of the program. Diploma students in the DMS Professional Plus program will pay the above rates for terms one and two and the rates below for terms three through six.

Student Status	DMS Tuition
Fulltime	\$6,581
Three-Quarter Time	\$4,948
Half-Time	\$3,315

It is understood that if a student takes more than 17.0 credits or less than 6.0 credits in any term, he/she will pay for those credits at the rate \$459 per credit in Terms 1-5 and \$548 per credit for Terms 6-9.

**Associate in Specialized Technology Degree Engineering Technology (ET)** students will be charged the rates below for all terms:

Student Status	ET Tuition
Fulltime	\$5,728
Three-Quarter Time	\$4,317
Half-Time	\$2,893

It is understood that if a student takes more than 17.0 credits or less than 6.0 credits in any term, he/she will pay for those credits at the rate of \$478 per credit.

**FACULTY**

*The following faculty member is added to the Lewistown location on page 58 of the 2013-2014 catalog.*

**Donna Clifton, CMA**  
 B.S., Kaplan University  
 AAS, Medical Careers Institute  
 Teaching Area: Allied Health

**STAFF**

*The following staff member is added to the State College location on page 56 of the 2013-2014 catalog.*

**Sarah Moist, Admissions Assistant**  
 B.S., Pennsylvania College of Technology

**SOUTH HILLS SCHOOL OF BUSINESS & TECHNOLOGY**  
**480 Waupelani Drive, State College, PA 16801-4516**

**Addendum #2 to 2013-2014 Catalog**

**TUITION AND FEES**

*The following replaces the fourth paragraph of Tuition and Fees from Addendum #1 to the 2013-2014 catalog.*

**Associate in Specialized Technology Degree Diagnostic Medical Sonography (DMS)** students will be charged the above rates for terms one through five. For terms six through nine, they will be charged as shown below. Diploma students in the DMS Professional program will pay the above rate for Term 1 and the rates below for Terms 2-5. Diploma students in the DMS Professional Plus program will pay the above rates for terms one and two and the rates below for terms three through six.

*The following replaces the "Books and Supplies" paragraph on page 12 of the 2013-2014 catalog.*

**Books and Supplies.** Books and supplies are not part of the total tuition cost. South Hills School does not sell books. The school has contracted with MBS Direct and the Student Book Store to be our providers of textbooks. However, students may choose any book vendor to purchase books.

A student may charge books to his/her account if the student has sufficient financial aid to cover the book charges and if he/she orders from MBS Direct or the Student Book Store. There will be a \$10 fee for this service in most instances.

**COURSE DESCRIPTIONS**

*Delete HI220 ICD-10-CM/PS from page 34 of the 2013-2014 catalog.*

**PROGRAMS**

*Diagnostic Medical Sonography Professional diploma program on page 18 of the 2013-2014 catalog—term numbering correction.*

**DIAGNOSTIC MEDICAL SONOGRAPHY  
PROFESSIONAL  
Diploma Program  
69.5 credits/1764 clock hours**

<u>Code</u>	<u>Course</u>	<u>Credits</u>	<u>Clock Hours</u>
<b><u>First Term</u></b>			
DS101	First Aid and CPR-AHA	0.5	12
DS265	Embryology for the Sonographer	3.0	60
DS111	Principles of Sonography	3.0	60
DS309	Law & Ethics in Medical Imaging	2.5	36
MD200	Pharmacology	2.0	36
GE172	Human Relations in the Workplace	<u>1.5</u>	<u>36</u>
		12.5	240
<b><u>Second Term</u></b>			
DS208	Ultrasound Physics & Instrumentation I	2.5	48
DS219	Cross Sectional & Three-Dimensional Anatomy	2.5	36
gDS224	Gynecologic Ultrasound OR	3.0	60
cDS243	Cardiac Pathophysiology I OR	(3.0)	(60)
vDS252	Vascular Technology I	(3.0)	(60)
gDS218	Obstetric Ultrasound OR	3.0	60
cDS244	Echocardiography I OR	(3.0)	(60)
vDS254	Vascular Pathophysiology	(3.0)	(60)
DS233	Abdominal Ultrasound I	3.0	60
gDS205	Clinical Obstetrics OR	2.5	36
cvDS211	Principles of Cardiovascular Technology	<u>(2.5)</u>	<u>(36)</u>
		16.5	300
<b><u>Third Term</u></b>			
DS266	Ultrasound Physics & Instrumentation II	2.5	48
cgDS235	Principles of Vascular Sonography OR	4.0	72
vDS308	Vascular Technology II	(4.0)	(72)
gDS264	Obstetric and Gynecologic Ultrasound II OR	3.0	60
vDS258	Vascular Ultrasound Special Topics OR	(3.0)	(60)
cDS259	Echocardiography Special Topics	(3.0)	(60)
cDS247	Echocardiography II OR	3.0	60

gvDS210	Ultrasound of the Thyroid, Breast, & Superficial Structures	(3.0)	(60)
gvDS261	Abdominal Ultrasound II OR	3.0	60
cDS262	Cardiac Pathophysiology II	<u>(3.0)</u>	<u>(60)</u>
		15.5	300

**Fourth Term**

DS601	Clinical Internship I	10.0	420
CD204	Job Search Skills	1.0	24
DS225	Professional Development I	<u>2.0</u>	<u>30</u>
		13.0	474

**Fifth Term**

DS602	Clinical Internship II	10.0	420
DS226	Professional Development II	<u>2.0</u>	<u>30</u>
		12.0	450

g = general  
c = cardiac  
v = vascular

For more information about our graduation rates, the median debt of students who completed the program, and other important information, please view our website at [www.southhills.edu/disclosures/gainful-employment-disclosure.php?program=dmg](http://www.southhills.edu/disclosures/gainful-employment-disclosure.php?program=dmg).

**HISTORY**

*Correction to the student/faculty ratio listed under "History" on page 1 and 2 of the 2013-2014 catalog.*

The faculty and staff at the Main Campus now number 79; the student/faculty ratio is 13 to 1. The Lewistown faculty and staff number 17; the student/faculty ratio is 10 to 1. The Altoona faculty and staff number 26; the student/faculty ratio is 12 to 1.

**FACULTY**

*The following faculty members are added to the locations as listed below.*

**ALTOONA**

**Jackie Harpster**

B.A., St. Francis University  
Teaching Area: Criminal Justice

*The following is a correction to Addendum #1 for the 2013-2014 catalog:*

**Donna Clifton, CMA (AAMA)**

B.S., Kaplan University  
AAS, Medical Careers Institute  
Teaching Area: Allied Health

**LEWISTOWN**

**Brian Baker**

M.A., Vermont College, Union Institute  
B.S., The Pennsylvania State University  
Teaching Area: Criminal Justice

**Jodi Cramer**

AST, South Hills School of Business & Technology  
B.S., Lock Haven University  
Teaching Area: Allied Health

**Harry Geedey**

M.Ed., The Pennsylvania State University  
B.S., Clarion University  
Teaching Area: Business and Mathematics

**Laurie Kozak**

A.A., Harrisburg Area Community College  
B.A., St. Francis University  
M.S., Mount Aloysius College  
Teaching Area: Criminal Justice

**Thomas Snare**

B.S., The Pennsylvania State University  
Teaching Area: Accounting

**STATE COLLEGE****Jodi Cramer**

AST, South Hills School of Business & Technology  
B.S., Lock Haven University  
Teaching Area: Allied Health and General Education

**Sharyn Everhart**

B.S., Juniata College  
Teaching Area: Computer Technology

**Susan Healy**

M.S., Drexel University  
B.S., The Pennsylvania State University  
Teaching Area: Mathematics and Accounting

**Nancy Lippincott**

B.S., The Pennsylvania State University  
Teaching Area: Computer Technology and Mathematics

**Brad Martz**

B.S., Bob Jones University  
Teaching Area: Computer Technology

**Elizabeth Nelson**

M.A., Northwestern University  
B.A., Ohio University  
Teaching Area: English

**STAFF**

*The following staff member is added to the State College location on page 56 of the 2013-2014 catalog.*

**Sarah Moist, Admissions Assistant**

B.S., Pennsylvania College of Technology

*The following staff position titles have changed from page 55 of the 2013-2014 catalog.*

**Susan Vidmar, Director of Education****Sandra Gible, Director of Regulatory Affairs****Ingrid Thompson, Academic Affairs Officer****Rachel Yoder, Academic Affairs Officer****Jacqueline M. Edwards, Student Attendance Manager/Counselor**

*The following staff members are added to the Altoona location on page 56 of the 2013-2014 catalog.*

**Barbara Harpster, Admissions Representative**

B.A., The Pennsylvania State University

**Cheyenne D. McIntyre, Office Assistant**

ASB, South Hills School of Business & Technology

**SOUTH HILLS SCHOOL OF BUSINESS & TECHNOLOGY**  
**480 Waupelani Drive, State College, PA 16801-4516**

**Addendum #3 to 2013-2014 Catalog**

**STAFF**

*Correction to STAFF section of Addendum #2 to the 2013/3014  
catalog:*

**Sarah Moist, Admissions Representative**  
B.S., Pennsylvania College of Technology

1/14/14

**SOUTH HILLS SCHOOL OF BUSINESS & TECHNOLOGY  
480 Waupelani Drive, State College, PA 16801-4516**

**Addendum #4 to 2013-2014 Catalog**

**Medical Assistant**

*The following is added to the Medical Assistant program on page 22 of the 2013/2014 catalog. The second paragraph is also added to the Lewistown Location, Program Integration with the Main Campus on page 2 of the 2013/2014 catalog.*

Numerous classes in the Medical Assistant program at the State College Campus will be held at our additional space located at 3081 Enterprise Dr., less than one mile from the main campus. The following classes are held in our medical lab at that location: Clinical Skills I, II, and III, Laboratory Procedures I and II, and Medical Seminar.

Students in the Lewistown area have the option of attending our Lewistown campus, located at 124 East Market St. Lewistown, PA, for the first two terms of the program. Starting in term three and for the remainder of the program, they will attend our State College campus.

**SOUTH HILLS SCHOOL OF BUSINESS & TECHNOLOGY**  
**480 Waupelani Drive, State College, PA 16801-4516**

**Addendum #5 to 2013-2014 Catalog**

**Additional Admissions Requirements**  
**Diagnostic Medical Sonography Programs**

*The following replaces Additional Admissions Requirements, Diagnostic Medical Sonography Programs on pages 4—5 of the 2013-2014 catalog.*

Acceptance into the DMS program is competitive and is not on a first-come, first-serve basis. Completed applications are reviewed by a selection committee at intervals throughout the school year and successful applicants are chosen based on the criteria listed below.

Applicants of the DMS program should have a high school or post-secondary educational background that is strong in academic math and science. Biology, algebra, trigonometry and physics are preferred.

Prospective students are evaluated based on the following:

- High school program of study (specific courses completed, overall GPA, and class rank)
- Two letters of recommendation (guidelines provided by admissions representative)
- Entrance exam results
- Post-secondary education program (if applicable)
- SAT scores\*
- Prior experience in healthcare, paid or volunteer
- Resume

Based on the above criteria, qualified applicants will be selected for a personal interview with the DMS faculty. Upon completion of the faculty interview, the application will be reviewed by the selection committee.

\* SAT scores are strongly recommended for all applicants to the A.S.T. degree program.

Additional acceptance requirements include:

- Excellent written and verbal English communication skills
- Full use of both hands and wrists
- Ability to lift and move 50 pounds
- Ability to stand for extended periods of time
- Ability to visualize in dimly lit settings
- Ability to hear Doppler audio signals
- Criminal background check\*
- Completion of required immunizations and health record documentation\*\*
- Completion of drug history and testing\*\*\*
- Additional requirements\*\*\*\*

\*Documentation of criminal history from the Pennsylvania State Police Access to Criminal History (PATCH) is required for final acceptance into the program, as well as a child abuse clearance. An FBI background check is required for applicants who have resided in the state of Pennsylvania for less than 2 years. Additional criminal record and child abuse checks will be performed as a condition for internship placement. Cost of the Pennsylvania State Police criminal background check is currently \$10 and the child abuse clearance is an additional \$10. The cost of the FBI background check is variable. These costs are the responsibility of the applicant/student.

Applicants are asked to declare previous arrests and/or convictions for any offense other than traffic violations. Conviction of certain offenses will result in ineligibility for this program and for credentialing examinations.

If a positive record is obtained from any criminal record report, the student/applicant will be advised as to the course of action to be taken by the school, which may result in disqualification from the program, depending on the nature and severity of the offense(s). One felony or

two misdemeanors, other than DUI convictions, will disqualify the student/applicant from the program.

If the applicant has more than one misdemeanor DUI conviction that is five years old or older, the applicant can apply for the ARDMS predetermination of eligibility. If the applicant is declared eligible through the ARDMS predetermination process, prior to the start of the program, the applicant will be eligible to enroll in the program if accepted.

Many health care facilities will no longer hire applicants who use tobacco products, including cigarettes, cigars and chewing or smokeless tobacco. Applicants for employment at these facilities may be screened for nicotine as part of the pre-employment physical examination process, and those who test positive for nicotine will not be considered for employment.

**Withdrawal From and Readmission to the DMS, DPP, or DMP Programs**

A student who is dismissed from, or who withdraws from the program may submit a reapplication, however he/she is not guaranteed readmission to the program.

If a student is granted readmission to the program from which he/she has withdrawn in term 6 or beyond, (Term 3 for DPP, Term 2 for DMP), re-entry into the program will occur with the following year's class. The student will be required to re-enter the program the following year at the beginning of term 6 for DMS, term 3 for DPP, and term 2 for DMP, and re-take and pass all the classes and labs in that term and subsequent terms. Any of the courses which the student has previously taken and in which the student received a grade of C or better, will be taken on an audit basis.

In no case will the student be required to pay a second time for a course which he/she successfully completed. The student will be required to attend all classes and labs with the then-current class, and to pass all classes and labs with a C or better, including written final exams and final competency assessments, in order to continue in the program.

**Programmatic Prerequisite** The Sonography program curriculum is designed to follow a specific progression of classes to be completed within the designated time frame. Each term's classes must be successfully completed before progression to the next term is permitted. The student must maintain full time status to be enrolled in the DMS, DPP, and DMP programs. (Students may continue in the program on a part time basis if those course requirements have been met by equivalent courses transferred from another institution.)

Any exceptions to the listed curriculum must be requested in writing and approved by the DMS Program Director. The student may be required to demonstrate academic and/or sonographic competency.

The following would result in academic dismissal from the DMS program:

1. Less than a C (78%) in any course in the Sonography curriculum
2. Non-completion of term-by-term prerequisites (for example, dropping or otherwise not completing one or more courses).

**Pregnancy**

If any student needs to withdraw from the program due to pregnancy, and is otherwise in good academic standing, the student may reapply and will be granted a seat provided there are seats available. Readmission to the program will be under the same conditions as described above. The program must be completed in its entirety within 5 years of the initial start date of the program.

\*\*Students are required to obtain TB/PPD testing, Hepatitis B titer and/or vaccination, and other titers and vaccines as dictated by individual health history and childhood vaccination history (e.g. chicken pox). A physical examination by a physician may be required depending upon the internship site assigned. Costs for these requirements are the responsibility of the student.

\*\*\*Drug testing is required for internship site placement and may also be conducted at random times throughout the program. A positive test result for any illegal drug or controlled substance will result in immediate disqualification and dismissal from the program. Prohibited substances include, but are not limited to: amphetamines, barbiturates, benzodiazepines, cocaine metabolites, methadone, methaqualone, opiates, phencyclidine, and propoxyphenes. Cost of the urine drug test is the responsibility of the student and will be added to the school invoice.

\*\*\*\*A complete description of technical standards for the Diagnostic Medical Sonographer profession based on ADA requirements can be found at the U.S Bureau of Labor Statistics.

#### **Applicants with Previous Degree or Diploma**

Two diploma programs exist for the purpose of accommodating applicants with specific educational backgrounds. Interested applicants should consult with one of our admissions representatives to determine which program best meets their needs and educational objectives.

**DMS Professional Program (DMP)** This diploma program is designed for applicants with a previous degree or diploma or equivalent in a medical imaging specialty such as Radiologic Technology or Nuclear Medicine Technology. Admission to the DMP program assumes a strong background in college level anatomy, physiology, medical terminology, patient care, and imaging sciences. Applicants must have the following college level courses prior to admission:

- Algebra, Statistics, or higher mathematics courses
- Communication Skills
- General Physics or Radiographic Physics
- Human Anatomy and Physiology

A grade of at least a C in each of the above courses is required, unless our articulation agreement with your university lists a higher grade requirement. Applicants for the DMP program will be considered when their admissions requirements are completed.

**DMS Professional Plus Program (DPP)** This diploma program is designed for applicants with a previous Bachelor's degree\* in a field other than Medical Imaging. The program includes courses in anatomy, physiology, medical terminology, patient care, and medical imaging sciences. Applicants must have completed the following college level courses prior to admission with a grade of C or higher:

- Algebra, Statistics, or higher mathematics courses
- Communication Skills

\*The Bachelor of Science or Bachelor of Arts degree must have been completed within 15 years of the DPP program start date in order for the applicant to be eligible for this program.

**Students Enrolled in B.S. Degree Programs in Medical Imaging at Other Institutions** Students may be eligible to enter the DMP program when it is a component of a Bachelor's Degree program at another institution. This is subject to a formal agreement between South Hills School and the articulating institution, and must be approved on an individual basis. Such students must complete their B.S. degree in order to be eligible to sit for the ARDMS® registry examinations.

**Transfer Credits** Any student wishing to receive transfer credit from another institution is responsible for providing the previous institution's official transcript along with course descriptions. Each course will be reviewed on an individual basis and is not guaranteed to apply to South Hills School course credit. A grade of "C" or better is required in each general education course, and a "B" or better in each specialty or technical course being reviewed, in order for transfer credit to be considered. Transfer credits must be declared and approved prior to the start of the program or no transfer credit will be granted.

**South Hills School Student Transfer** If a current South Hills student wishes to transfer into the DMS program, provided there are seats available, the student must speak with an admissions representative to initiate the DMS application process. Additional terms will most likely be required. Each applicant is reviewed on an individual basis and not guaranteed a seat in the program. See application process above.