SUPPLEMENT TO THE

2009-2010

CATALOG
The Associate of Arts and Associate of Science Degrees are awarded to students who meet the following graduation requirements:

1. Earn a minimum of 60 credit hours (excluding developmental credit).
2. Complete the core curriculum of 45 credit hours.
3. Complete a minimum of 12 credit hours of recommended electives / areas of emphasis. See pages 55 – 76.
4. For the Associate of Arts degree, complete a 3 credit hour Sophomore Literature course; this requirement may be met through a Core Literature course.
5. For the Associate of Science degree, complete an additional 3 credit hour mathematics course.
6. Earn a minimum of 18 credit hours in residency at Collin.
7. Earn a minimum cumulative GPA of 2.0.
8. Complete TSI requirements.

The Associate of Arts in Teaching degree is awarded to students who meet the following requirements (in addition to requirements 1, 6, 7 and 8 listed above).

AAS Biotechnology – 68 credit hours
Biotechnology Certificate – 30 credit hours

The following programs have been deleted:
- AAS Integrated Circuit Design and Layout Specialization
- Integrated Circuit Design and Layout Certificate
- Integrated Circuit Design and Layout Marketable Skills Achievement Award
**Computer Networking Technology**
AAS Computer Networking Technology – Elective replaces ITMT 2446
AAS Cisco Systems Networking Specialization – ITNW 1454 has been deleted
Computer Networking Technology Software (MCSA) Certificate – in the list of electives –
ITMT 2440 replaces ITMT 2446

**Electronic Design**
Electronic Design Automation Certificate – DFTG 2336 replaces DFTG 2371

**HEALTH INFORMATION TECHNOLOGY**

*Program Director:*
Patricia Pierson, RHIA, BS . . . . . . CPC-E307 . . . . 972.548.6676

*Academic Advisor:*
Tori Hoffman . . . . . . . CPC-D117E . . . . . .972.548.6779

The AAS in Health Information Technology (HIT) at Collin County Community College is an 18 month program (two academic years) that will prepare the student for workforce entry-level as a certification eligible coding associate and registered health information technician. The course of study consists of approved courses from the Workforce Education Course Manual of Texas. These courses are based on the AHIMA’s (American Health Information Management Association’s) competencies for the CCA (Certified Coding Associate) and the RHIT (Registered Health Information Technician). The Health Information Technology curriculum is approved by the Texas Higher Education Coordinating Board and modeled after the AHIMA national associate degree curriculum. The HIT AAS program is pending accreditation for Health Informatics and Information Management Education (CAHIIM).

Students must have instructor permission to enroll in cooperative education, the Clinical-Health Information/Medical Records Technology (Capstone) course, and must meet all requirements of external clinical facilities participating in the program. These requirements include drug screens, background checks, selected immunizations and proof of personal health insurance. Admission to this course is limited and competitive and requires student have permission from the program director. Students must have completed all previous course work with a GPA of 2.5 or higher to be considered. For more information, contact the Health Information Technology Department. Students who think they may need functional accommodation are encouraged to contact the college ACCESS department as soon as this program is of interest.

Students interested in the program should see an academic advisor for consultation and consult the college web site for more specific information. The Program Director should be contacted to construct a degree plan as soon as the program is of interest.
**Information Systems Cybersecurity**

**AAS – Information Systems Cybersecurity**

71-72 credit hours

*All ITCC, ITMC, ITMT, ITNW and ITSY courses are offered in eight-week express sessions.*

**FIRST YEAR**

**First Semester**

- CPMT 1405 IT Essentials I: PC Hardware and Software
- ENGL 1301 Composition/Rhetoric I
- ITMT 1300 Implementing and Supporting Microsoft Windows XP Professional
- ITMT 1440 Managing and Maintaining a Microsoft Windows Server 2003 Environment
- ITNW 1358 Network+

**Second Semester**

- ECON 2301 Principles of Macroeconomics
- ITCC 1301 CCNA 1 Exploration - Network Fundamentals
- ITMT 1450 Implementing, Managing, and Maintaining a Microsoft Windows Server 2003 Network Infrastructure: Network Services
- ITSC 1316 Linux Installation and Configuration
- PHED/DANC Any activity course
- Elective*

**Summer**

- ITCC 1304 CCNA 2 Cisco Exploration 2 - Routing Protocols and Concepts
- MATH 1314 College Algebra

**SECOND YEAR**

**First Semester**

- ITCC 2308 CCNA 3 Cisco Exploration 3 - LAN Switching and Wireless
- ITCC 2310 CCNA 4 Cisco Exploration 4 - Accessing the WAN
- ITSY 2300 Operating System Security
- ITSY 2301 Firewalls and Network Security
- SPCH 1311 Fundamentals of Speech Communication

**Second Semester**

- HUMA 1301 Introduction to the Humanities
- ITSY 2341 Security Management Practices
- ITSY 2342 Incident Response and Handling
- ITSY 2343 Computer System Forensics
- ITSY 2371 e-Commerce and Biometric Authentication (Capstone)

*Note: Preferred core choices in italics; other options available on pages 76-77, unless otherwise noted.*

1 Tech Prep course which may have been completed in high school
2 College Algebra level or higher required
* Elective (4-5 credit hours): ITMT 2440, ITSY 1400, or ITSY 2572
Information Systems Cybersecurity Certificate
39-40 credit hours
All ITCC, ITMC, ITMT, ITNW, and ITSY courses are offered in eight-week express sessions.

First Semester
ITCC 1301 CCNA 1 Exploration - Network Fundamentals¹
ITCC 1304 CCNA 2 Cisco Exploration 2 - Routing Protocols and Concepts¹
ITMT 1440 Managing and Maintaining a Microsoft Windows Server 2003 Environment
ITNW 1358 Network+

Second Semester
ITMT 1450 Implementing, Managing, and Maintaining a Microsoft Windows Server 2003 Network Infrastructure: Network Services
ITSY 2300 Operating System Security
ITSY 2301 Firewalls and Network Security
ITSY 2342 Incident Response and Handling
Elective*

Summer
ITSY 2341 Security Management Practices
ITSY 2343 Computer System Forensics
ITSY 2371 e-Commerce and Biometric Authentication (Capstone)

¹ Tech Prep course which may have been completed in high school
* Elective (4-5 credit hours): ITMT 2440, ITSY 1400, or ITSY 2572

CISSP Information Systems Cybersecurity Professional Certificate
15 credit hours
All ITCC, ITMC, ITMT, ITNW, and ITSY courses are offered in eight-week express sessions.

First Semester
ITNW 1358 Network+

Second Semester
ITSY 1400 Fundamentals of Information Security
ITSY 2341 Security Management Practices
ITSY 2572 Certified Information Systems Security Professional (CISSP) Common Body Of Knowledge Domain Instruction (Capstone)
Interior and Architectural Design

AAS – Green Interior and Architectural Design Specialization
72 credit hours

FIRST YEAR
First Semester
DFTG 1309 Basic Computer-Aided Drafting ¹
ECON 1301 Introduction to Economics
INDS 1301 Basic Elements of Design
INDS 1341 Color Theory and Application
INDS 1371 Introduction to Green Design

Second Semester
INDS 1319 Technical Drawing for Interior Designers
INDS 1351 History of Interiors I
INDS 1372 Computer-Aided Drafting for Interior Designers
INDS 1373 Green Interiors I
MATH 1314 College Algebra ²
PHED/DANC Any activity course

Summer
ENGL 1301 Composition/Rhetoric I
SPCH 1311 Fundamentals of Speech Communication

SECOND YEAR
First Semester
HUMA 1301 Introduction to the Humanities
INDS 1315 Materials, Methods and Estimating
INDS 1352 History of Interiors II
INDS 2313 Residential Design I
INDS 2315 Lighting for Interior Designers

Second Semester
CNBT 2317 Green Building
INDS 1345 Commercial Design I
INDS 2330 Interior Design Building Systems
INDS 2335 Residential Design II
INDS 2374 Sustainable Living

Summer
INDS 1280 Cooperative Education - Interior Design
INDS 2373 Green Interiors II (Capstone)

Note: Preferred core choices in italics; other options available on pages 76-77, unless otherwise noted.

¹ Tech Prep course which may have been completed in high school
² College Algebra level or higher required
Green Interior and Architectural Design Level II Certificate
54 credit hours

FIRST YEAR
First Semester
DFTG 1309 Basic Computer-Aided Drafting
INDS 1301 Basic Elements of Design
INDS 1341 Color Theory and Application
INDS 1371 Introduction to Green Design

Second Semester
INDS 1319 Technical Drawing for Interior Designers
INDS 1351 History of Interiors I
INDS 1372 Computer-Aided Drafting for Interior Designers
INDS 1373 Green Interiors I

SECOND YEAR
First Semester
INDS 1315 Materials, Methods and Estimating
INDS 1352 History of Interiors II
INDS 2313 Residential Design I
INDS 2315 Lighting for Interior Designers

Second Semester
CNBT 2317 Green Building
INDS 1345 Commercial Design I
INDS 2330 Interior Design Building Systems
INDS 2335 Residential Design II
INDS 2374 Sustainable Living

Summer
INDS 2373 Green Interiors II (Capstone)

1 Tech Prep course which may have been completed in high school

Green Interior and Architectural Design Level I Certificate
21 credit hours

First Semester
DFTG 1309 Basic Computer-Aided Drafting
INDS 1315 Materials, Methods and Estimating
INDS 1371 Introduction to Green Design
Second Semester
CNBT 2317 Green Building
INDS 1373 Green Interiors I
INDS 2374 Sustainable Living

Summer
INDS 2373 Green Interiors II (Capstone)

1 Tech Prep course which may have been completed in high school

MSAA – Green Interior and Architectural Design
12 credit hours

First Semester
DFTG 1309 Basic Computer-Aided Drafting  
INDS 1371 Introduction to Green Design

Second Semester
INDS 1373 Green Interiors I
INDS 1375 Green Building Certification Training

1 Tech Prep course which may have been completed in high school

MARKETABLE SKILLS ACHIEVEMENT AWARD
Some of the courses in this award program may require prerequisites, corequisites, and/or prerequisite/concurrent enrollment. Please check the course descriptions in the 2009-2010 Catalog and/or the document “Courses added after printed 2009-2010 Catalog” on our webpage.

MSAA – Certified Nurse Assistant
14 credit hours
DSAFE 1340 Diagnostic Electrocardiography
ECRD 1111 Electrocardiography
NURA 1160 Clinical – Nurses Aide and Patient Assessment
NURA 1301 Nurse Aide for Health Care
PLAB 1323 Phlebotomy
PLAB 1360 Clinical – Phlebotomy
Semiconductor Manufacturing Technology

AAS – Semiconductor Manufacturing Technology Solar Cell Specialization
72 credit hours

**FIRST YEAR**

**First Semester**
- CETT 1403 DC Circuits 1
- *ENGL 1301 Composition/Rhetoric I*
- ENGR 1201 Introduction to Engineering
- *MATH 1314 College Algebra 2*
- SMFT 1471 Fundamentals of Silicon Solar Cell Engineering

**Second Semester**
- CETT 1405 AC Circuits 1
- MATH 1316 Trigonometry
- PHYS 1401 General Physics I
- SMFT 1473 Fundamentals of Silicon Solar Cell Manufacturing

**Summer**
- ECON 1301 Introduction to Economics
- SPCH 1311 Fundamentals of Speech Communication

**SECOND YEAR**

**First Semester**
- CETT 1380 Cooperative Education - Computer Engineering Technology/Technician
- CETT 1429 Solid State Devices 1
- *HUMA 1301 Introduction to the Humanities*
- PHED/DANC Any activity course
- SMFT 1475 Materials Technology, Measurement Technology and Characterization Methods Used In Semiconductor Solar Cell Manufacturing
- SMFT 2370 Semiconductor Solar Cell Manufacturing Facilities, Methods, and Safety

**Second Semester**
- CPMT 2302 Digital Home Technology Integration
- HART 2472 Alternative Energy Perspectives, Energy Sources, Energy Storage, and Energy Distribution
- SMFT 2471 Advanced Solar Cell Design And Engineering (Capstone)
- Elective*
- Elective*

*Note: Preferred core choices in italics; other options available on pages 76-77, unless otherwise noted.*

1 Tech Prep course which may have been completed in high school
2 College Algebra level or higher required
* Elective (6 credit hours): HART 1475, SMFT 2379, or any CETT, CPMT, EECT, or ENGR course
Semiconductor Manufacturing Technology Solar Cell Operations Certificate
19 credit hours

First Semester
CETT 1403 DC Circuits ¹
SMFT 1370 Introduction to Silicon Solar Cell Engineering
SMFT 1372 Introduction to Silicon Solar Cell Manufacturing

Second Semester
CETT 1380 Cooperative Education - Computer Engineering Technology/Technician (Capstone)
SMFT 1374 Introduction to Materials Technology, Measurement Technology and Characterization Methods Used In Semiconductor Solar Cell Manufacturing
SMFT 2370 Semiconductor Solar Cell Manufacturing Facilities, Methods, and Safety

¹ Tech Prep course which may have been completed in high school

Semiconductor Manufacturing Technology Solar Cell Engineering Specialization
38 credit hours

First Semester
CETT 1403 DC Circuits ¹
CETT 1429 Solid State Devices ¹
SMFT 1471 Fundamentals of Silicon Solar Cell Engineering
SMFT 1473 Fundamentals of Silicon Solar Cell Manufacturing

Second Semester
CETT 1405 AC Circuits ¹
SMFT 1475 Materials Technology, Measurement Technology and Characterization Methods Used In Semiconductor Solar Cell Manufacturing
SMFT 2370 Semiconductor Solar Cell Manufacturing Facilities, Methods, and Safety
Elective* ¹

Summer
HART 2472 Alternative Energy Perspectives, Energy Sources, Energy Storage, and Energy Distribution
SMFT 2471 Advanced Solar Cell Design And Engineering (Capstone)

¹ Tech Prep course which may have been completed in high school
* Elective (3 credit hours): CPMT 2302, HART 1475, SMFT 2379, or any CETT, CPMT, EECT, or ENGR course
Semiconductor Manufacturing Technology Solar Cell Technician Specialization
37 credit hours

**First Semester**
CETT 1403 DC Circuits
CETT 1429 Solid State Devices
SMFT 1471 Fundamentals of Silicon Solar Cell Engineering
SMFT 1473 Fundamentals of Silicon Solar Cell Manufacturing

**Second Semester**
CETT 1405 AC Circuits
HART 2472 Alternative Energy Perspectives, Energy Sources, Energy Storage, and Energy Distribution
SMFT 1475 Materials Technology, Measurement Technology and Characterization Methods Used In Semiconductor Solar Cell Manufacturing
SMFT 2370 Semiconductor Solar Cell Manufacturing Facilities, Methods, and Safety

**Summer**
CETT 1380 Cooperative Education - Computer Engineering Technology/Technician (Capstone)
Elective*

* 1 Tech Prep course which may have been completed in high school
* 3 credit hours: CPMT 2302, HART 1475, or any CETT, CPMT, EECT, or ENGR course