



For more information contact:

Hazard Community
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All applicants meeting the appropriate academic requirement and technical standards shall be considered equally for admission to a community college or any academic program thereof regardless of race, color, religion, sex, marital status, beliefs, national origin, age, sexual orientation, or physical or mental disability.

How to Apply

Please submit the following items to the Admissions Office

1. A completed HCTC admissions application.
2. Official high school transcripts or GED scores, as applicable.
3. Official transcripts from other non-KCTCS colleges or institutions you have attended, if applicable.
4. ACT scores, if available. If you have not taken the ACT or you did not receive an *18 or higher* in Writing, Reading, and/or Mathematics sections, you must take the COMPASS placement test, which is given at HCTC.

To contact the Admissions Office, call
800-246-7521, Ext. 73311.

www.hazard.kctcs.edu



KCTCS is an equal opportunity institution.

Revised 7/14/2008



Computer Aided Drafting & Design / Surveying



Mission *Statement*

Hazard Community and Technical College delivers accessible, high quality education by providing academic programs, technical education, and training in a learning-centered environment. The College provides learners with varied experiences while supporting their transfer to other colleges and universities; training for employment; entrepreneurial, economic, cultural and leadership opportunities; and collaborative efforts with other schools and institutions.

Hazard Community and Technical College values excellence in teaching, lifelong learning, and service with the highest regard for ethics and the dignity of work, the heritage of Appalachia, and a shared appreciation for cultural diversity.

Hazard Community and Technical College, a member of the Kentucky Community and Technical College System, is a public comprehensive learning community serving southeastern Kentucky.

Detailer Certificate

Technical Core:

DFT	102	Drafting Fundamentals	4
DFT	112	Engineering Graphics	4
DFT	122	Intro to Computer Aided Drafting	4
		Computer Literacy	0-3
		Technical Electives (see elective list)	2-6
Total Credits			14-21

Drafter Assistant Certificate

Technical Core:

DFT	102	Drafting Fundamentals	4
DFT	112	Engineering Graphics <u>OR</u>	4
DFT	122	Intro to Computer Aided Drafting	(4)
		Computer Literacy	0-3
		Technical Electives (see elective list)	2-6
Total Credits			10-17

Surveying Technician II Certificate

Technical Core:

SMT	100	Surveying Software Applications and	3
SMT	102	Surveying Software Applications Lab <u>OR</u>	3
SMT	120	Surveying Drafting and	(3)
SMT	122	Surveying Drafting Lab <u>OR</u>	(3)
SMT	140	Surveying and	3
SMT	142	Surveying Lab <u>OR</u>	3
SMT	214	Construction Surveying and	(3)
SMT	216	Construction Surveying Lab	(3)
Total Credits			12

Surveying Technician I Certificate

Technical Core:

SMT	100	Surveying Software Applications and	3
SMT	102	Surveying Software Applications Lab <u>OR</u>	3
SMT	120	Surveying Drafting and	(3)
SMT	122	Surveying Drafting Lab <u>OR</u>	(3)
SMT	140	Surveying and	(3)
SMT	142	Surveying Lab <u>OR</u>	(3)
SMT	214	Construction Surveying and	(3)
SMT	216	Construction Surveying Lab	(3)
Total Credits			6

Civil Drafter Certificate

General Education:			Credit Hrs
MT	110	Applied Mathematics	3
Subtotal			(3)
Technical Core:			
DFT	102	Drafting Fundamentals	4
DFT	112	Engineering Graphics	4
DFT	122	Intro to Computer Aided Drafting	4
DFT	130	Descriptive Geometry	4
Subtotal			(16)
Surveying Core:			
DFT	108	Introduction to Surveying	3
SMT	100	Surveying Software Applications	3
SMT	102	Surveying Software Applications Lab	3
SMT	120	Surveying Drafting	3
SMT	122	Surveying Drafting Lab	3
SMT	140	Surveying	3
SMT	142	Surveying Lab	3
SMT	214	Construction Surveying	3
SMT	216	Construction Surveying Lab	3
Subtotal			(9-12)
Total Credits			28-31

Computer Assisted Drafter Certificate

General Education:			Credit Hrs
(Choose <u>one</u> 3 credit hour course from the following categories.)			
MT	110	Applied Mathematics	3
ENG	101	Writing I	3
		Heritage/Humanities/Foreign Language	3
		Science	3
		Social Interaction	3
		Oral Communications	3
Subtotal			(3)
Technical Core:			
DFT	102	Drafting Fundamentals	4
DFT	112	Engineering Graphics	4
DFT	122	Intro to Computer Aided Drafting	4
DFT	152	Intermediate CAD	4
		Computer Literacy	0-3
		Technical Electives: (see elective list)	2-9
Subtotal			(18-28)
Total Credits			21-31

General
Information

Computer Aided Drafters are technical specialists with broad-based skills for architectural, civil, mechanical, and manufacturing fields. In this program, the students are taught manual drafting techniques and 2D and 3D CAD. Specific skills taught include, but are not limited to, lettering, geometric construction, orthographic projections, dimensioning and tolerancing, and related technical processes. These skills are required to transform specifications and instructions of architects, designers, and engineers into complete and precise drawings. The drafter is a skilled technician with a thorough understanding of the graphic language and is an indispensable contributor to the engineering design team.

Construction workers use technical drawings and plans, that drafters prepare, to build structures such as office buildings and houses. Surveyors depend on drafters to design and update civil maps, such as property survey maps, road construction design, and mining maps.

Surveying Technicians can work either in the drafting office or in the field operating equipment on a surveying crew. Students perform routine topographical, boundary and other mapping / surveying projects, as well as Global Positioning (GPS) surveys.



Hazard Community and Technical College

The
Associate of Applied Science Degree
in
General Occupational/Technical Studies
Guidelines

In order to receive this degree you must do the following:

Complete general education components (15 credit hours minimum in specified areas – Mathematics, Natural/Applied Sciences, Social Interaction/Behavioral Sciences, Humanities/ Fine Arts, Writing/Accessing Information)

Complete computer literacy.

Complete 42 - 58 credit hours of technical course work (Industrial Technology, Business Technology, Health and Human Services or other).

Verify residency requirements – at least 25% of the approved curriculum credits (15 – 19 credit hours) must be completed at the institution granting the degree (degree total 60 – 76 credit hours)

Develop learner degree completion plan.

Technical courses to be utilized in this degree will be taken from the list of approved technical courses at Hazard Community and Technical College.

*Listing of General Education Requirements may be found in KCTCS catalog.

Hazard Community and Technical College
Technical Campus
Computer Aided Drafting & Design / Surveying
GRADUATION REQUIREMENTS (Subject to Change)

Diploma

Technical Core:			Credit Hrs
DFT 102	Drafting Fundamentals		4
DFT 112	Engineering Graphics		4
DFT 122	Intro to Computer Aided Drafting		4
DFT 130	Descriptive Geometry		4
DFT 152	Intermediate CAD		4
DFT 252	Parametric Modeling		4
ADFT 130	Introduction to Architecture		4
Subtotal			(28)

General Education:		
Area 1- Writing/Accessing Information, Oral Communications, Humanities/Heritage/Foreign Language		3
Area 2- MT 110 Applied Mathematics (or Higher)		3
Area 3- Computer Literacy		0-3
Subtotal		(6-9)

Note: Computer Literacy must be demonstrated either by competency exam or by completing a computer literacy course.

Technical Electives: (refer to elective list in KCTCS catalog)	
Subtotal	(19-21)

Total Credits 53-58

