

IDAHO STATE UNIVERSITY COLLEGE OF TECHNOLOGY

PROGRAM TITLE: COMPUTER AIDED DESIGN DRAFTING TECHNOLOGY

Information included in this handout may be changed at any time without notice and should not be considered as a binding contract between Idaho State University and students

Program Options and Length:

Computer Aided Design Drafting Technology, Advanced Technical Certificate	4 1/2 Semesters
Computer Aided Design Drafting Technology, Associate of Applied Science degree	4 1/2 Semesters

Entry dates**for this program:**

January, March, May,
August, and October

**Approximate cost
for books, tools,
& supplies:****\$1,341.00**

(See below for
registration fees.)

**For more information,
Contact:**

Idaho State University
College of Technology
Student Services Office
Campus Box 8380
Pocatello, ID 83209-8380
208-282-2622
e-mail: ctech@isu.edu
www.isu.edu/ctech/

Job Description: Computer-aided design drafting technicians work on many levels in the broad spectrum of machine and structural drafting and design. On the drafting level they prepare working drawings from rough sketches or layouts that have been drawn by engineers or designers. Their drawings meet specifications dictated by their company or some recognized standard. They work with the full variety of drafting tools including computers. They must be able to make engineering computations involved with layout and dimensioning of machine and structural parts. Work quality is of primary importance. On the design drafting level they calculate stresses, size members of structural components and mechanical parts, do layout work for drafters to follow, write technical reports and supervise groups of drafters.

Aptitudes and Interests: Visualize forms and shapes from blueprints and sketches, understand and apply theoretical principles and technical knowledge, concentrate on details for long periods of time, handle and manipulate drawing instruments and drafting tools skillfully, use computers efficiently, use independent judgment in planning work and handling problems. Workers should have a preference for technical and scientific work, like to do work which involves close tolerances, set limits and standards, be able to organize work rapidly and work under pressure, be willing to assume responsibility for quality of work, be interested in work which involves computers, machines, and planning and construction of buildings and structures.

Helpful High School Courses:

Algebra	Communications	Computers
English	Geometry	Mathematics
Mechanical Drawing	Physics	Speech
Technical Writing	Trigonometry	Arch Draft
Typing/Keyboard		

Related Occupations:

Architecture	Engineering	Surveying
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TUITION AND FEES

Fees apply to the current Idaho State University fee schedule located at <http://www.isu.edu/finserv/costinfo.shtml>.

Fees include **mandatory** student health insurance, any student with existing health insurance coverage may be exempt and waivers are available at <http://www.isu.edu/stuhlth/insurance/pp.html>.

ADMISSION STEPS

- Complete and return an Application for Admission along with a check or money order for \$40 (non-refundable), payable to Idaho State University. You may also apply online via the Idaho State University home page: www.isu.edu . Click on Prospective Students.
- Submit official college transcripts, if applicable, from each accredited institution of higher education that you have attended.
- Submit an official copy of your high school transcript or GED scores (Not required if you have completed and submitted proof of 14 or more academic credits from an accredited institution of higher education.)
- Meet with a College of Technology counselor, if desired, to obtain more in-depth information. To make an appointment, call (208)282-2622.
- Either:
 1. Complete the COMPASS Placement test. This test enables us to place you in the appropriate classes to enhance your success in college.
 2. Submit ACT/SAT scores, valid for seven (7) years from the date of testing. ACT scores are not required for acceptance to the College of Technology, however they are required to qualify for some scholarships
- Apply for financial aid if needed. Questions, call (208) 282-2756.
- Former College of Technology students who have been out of school one semester or more must complete the necessary forms in the Student Services office before returning to the program. Re-entering student must meet the requirements as outlined in the catalog effective at the date of their re-enrollment.

Idaho State University subscribes to the principles and laws of the State of Idaho and the federal government, including applicable executive orders pertaining to civil rights. All rights, privileges, and activities of the University are made available without regard to race, creed, color, sex, age, disability, national origin or veteran status. The University is an Equal Opportunity and Affirmative Action employer. Evidence of practices that are not consistent with such a policy should be reported to: Leonard E. "Buddy" Frazier, Affirmative Action Director; Museum Building, Room 422 Box 8315.E-mail frazleon@isu.edu, (208) 282-3964.

Idaho State University is committed to equal opportunity in education for all students, including those with documented disabilities. If you have a diagnosed disability or if you believe that you have a disability that might require reasonable accommodations, please contact: Dennis J. Toney, ADA Disabilities and Resource Center Director; Gravely Hall, Room 123 Box 8121.E-mail tonedenn@isu.edu, (208)282-3599.

Licensure, certification, and/or employment applications related to some degree programs require students to disclose any history of criminal prosecution which may include the student's driving record. Students who have a criminal history are strongly encouraged to contact the licensing agency or meet with the coordinator of the program they are interested in, prior to beginning classes, to discuss potential impediments to licensure, certification, or employment.

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Students accepted in the Computer Aided Design Drafting program must possess Algebra skills equivalent to TGE 100A or MATH 025 by the end of the 3rd Session in order to proceed in the CADD program. These qualifications are based on the following:

SAT test score 250 or above
 ACT test score 12 or above
 Compass test score 46 or above on Pre-Algebra
 Completion of MATH 025 or TGE 100A

1st Session

ATC	AAS	Course #	Course Title	Credits
x	x	CADD 101	Drafting Technology Theory I	2
x	x	CADD 102	Drafting Technology Laboratory I	3
x	x	ENG 101	English Composition	3

2nd Session

x	x	CADD 111	Drafting Technology Theory II	2
x	x	CADD 112	Drafting Technology Laboratory II	3

3rd Session

x	x	CADD 121	Mechanical Drafting Technology Theory I	2
x	x	CADD 122	Mechanical Drafting Technology Laboratory I	3
x	x	CADD 123	Drafting Applied Mathematics III	2
x	x	COMM 101	Principles of Speech	3

4th Session

x	x	CADD 131	Drafting Technology Theory III	2
x	x	CADD 132	Drafting Applied Mathematics III	3
x	x	CADD 133	Drafting Applied Mathematics and Statics	2

5th Session

x	x	CADD 141	Drafting Technology Theory IV	2
x	x	CADD 142	Drafting Technology laboratory IV	3
x	x	CADD 144	Drafting Applied Science I	2

6th Session

x	x	CADD 201	Mechanical Drafting Technology Theory II	2
x	x	CADD 202	Mechanical Drafting Technology Laboratory II	5

7th Session

x	x	CADD 211	Architectural Design Technology Theory	2
x	x	CADD 212	Architectural Design Technology Laboratory	3
x	x	CADD 214	Drafting Applied Science II	2

8th Session

x	x	CADD 221	Electrical Drafting Technology Theory	2
x	x	CADD 222	Electrical Drafting Technology Laboratory	5
x	x	TGE 158	Job Search	2

9th Session

x	x	CADD 231	Mechanical Design Technology Theory	2
x	x	CADD 232	Mechanical Design Technology Laboratory	3
x	x	CADD 234	Drafting Applied Science III	2

Students will also need to schedule the following classes if they are seeking the Associate of Applied Science degree: three (3) credits from Goal 3 (MATH); four (4) credits from Goal 5, and three (3) credits from Goals 6, 7, 9, 10A, 11 or 12.

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Textbooks may be purchased at the University Bookstore located at the Pond Student Union - Building #14. Textbooks may also be purchased or reserved on-line through www.efollett.com or the bookstore's website at www.isu.edu/bookstor. Payments may be made with cash, check, VISA, MasterCard, American Express, or Discover. A shipping charge will be added for mail orders. See the bookstore's website for more information on purchasing or reserving books or for refund policy information. **Save Your Receipts!**

Approximate total book and tool costs for this program's options are listed below.

Additional book costs will vary depending on the courses taken to fulfill

General education requirements for the AAS degree.

For a breakdown of books by individual class requirements, you must check your course curriculum.

NOTE: PRICES ARE SUBJECT TO CHANGE AT ANYTIME WITHOUT PRIOR NOTIFICATION

I. TOOLS

DESCRIPTION	APPROXIMATE PRICE
Scientific Calculator (Hewlett Packard HP33S - Recommended)	40.00
Eraser, White, Refillable pencil type or Magic Rub	2.00
Erasing Shield	1.00
French Curve, 5" to 6 1/2"	5.00
Lead, .5 mm (3H or 4H) – 1 box (12 pcs)	2.00
Lead, .5 mm (H or HB) – 1 box (12 pcs)	2.00
Lead, .7 mm (H or HB) – 1 box (12 pcs)	2.00
Pencil, Technical drafting, .5 mm- Pentel P205 or equal (Qty 2)	14.00
Pencil, Technical drafting, .7 mm- Pentel P207 or equal	7.00
Protractor, 4" to 6"	3.00
Scale, Architectural	5.00
Scale, Civil Engineer's (must have 10, 20, 30, 40, 50, and 60 scales)	5.00
Scale, Mechanical Engineer's (must have 1/4 size, 3/8 size, 3/4 size)	5.00
Drafting Tape, 3/8" to 1/2" wide (1 roll)	3.00
Drafting Triangle, 6" or 8" , 30° x 60° , plastic	4.00
Drafting Triangle, 4" or 6" , 45° , plastic	4.00
APPROXIMATE TOTAL TOOLS	\$104.00

II. SUPPLIES

DESCRIPTION	APPROXIMATE PRICE
Flash Drive 1GB or larger	20.00
** INITIAL SUPPLIES:	
3-ring Binders, 3" (Qty 2)	10.00
Notebooks (Qty 2)	4.00
Graph Paper, 5x5 engineering computation pad, green (one 200-sheet pkg)	7.00
APPROXIMATE TOTAL SUPPLIES	\$41.00

**** INITIAL SUPPLIES: ADDITIONAL BINDERS, NOTEBOOKS, AND GRAPH PAPER WILL NEED TO BE PURCHASED THROUGHOUT THE PROGRAM.**

III. BOOKS

FIRST SESSION

DESCRIPTION	APPROXIMATE PRICE	
CADD 101 DRAFTING TECHNOLOGY THEORY I		
APPLYING AUTOCAD 2008	0078801532	67.00
CADD 102 DRAFTING TECHNOLOGY LABORATORY I		
ENGINEERING DRAWING (PROBLEM SERIES 1)	0136585367	35.00
TECHNICAL DRAWING	0135135273	120.00
CADD 102 Lab Fee		25.00
APPROXIMATE TOTAL BOOKS & FEES - FIRST SESSION		\$247.00

SECOND SESSION

DESCRIPTION	APPROXIMATE PRICE	
CADD 112 DRAFTING TECHNOLOGY LABORATORY II		
CADD 112 Lab Fee		25.00
APPROXIMATE TOTAL BOOKS & FEES - SECOND SESSION		\$25.00

THIRD SESSION

DESCRIPTION	APPROXIMATE PRICE	
CADD 122 MECHANICAL DRAFTING TECHNOLOGY LABORATORY I		
CADD 122 Lab Fee		25.00
CADD 123 DRAFTING APPLIED MATHEMATICS III		
INTRODUCTORY ALGEBRA & TRIG (W/ APPL)	0471368762	165.00
PRACTICAL SHOP MATHEMATICS (Spiral bound re-print)	0070713581	24.00
APPROXIMATE TOTAL BOOKS & FEES - THIRD SESSION		\$214.00

FOURTH SESSION

DESCRIPTION	APPROXIMATE PRICE	
CADD 131 DRAFTING TECHNOLOGY THEORY III		
STRUCTURAL STEEL DRAFTING	1401890322	136.00
CADD 132 DRAFTING APPLIED MATHEMATICS III		
CADD 132 Lab Fee		25.00
CADD 133 DRAFTING APPLIED MATHEMATICS AND STATICS		
APPLIED STATICS & STRENGTH OF MATERIALS	0131946842	129.00
APPROXIMATE TOTAL BOOKS & FEES - FOURTH SESSION		\$290.00

FIFTH SESSION

DESCRIPTION	APPROXIMATE PRICE	
CADD 142 DRAFTING TECHNOLOGY LABORATORY IV		
CADD 142 Lab Fee		25.00
APPROXIMATE TOTAL BOOKS & FEES - FIFTH SESSION		\$25.00

SIXTH SESSION

DESCRIPTION	APPROXIMATE PRICE	
CADD 202 MECHANICAL DRAFTING TECHNOLOGY LABORATORY II		
CADD 202 Lab Fee		25.00
APPROXIMATE TOTAL BOOKS & FEES - SIXTH SESSION		\$25.00

SEVENTH SESSION

DESCRIPTION	APPROXIMATE PRICE	
CADD 211 ARCHITECTURAL DESIGN TECHNOLOGY THEORY		
ARCHITECTURE	1590706992	80.00
CADD 212 ARCHITECTURAL DESIGN TECHNOLOGY LAB		
INTRO REVIT ARCHITECTURE 2009	0470260982	40.00
CADD 212 Lab Fee		25.00
APPROXIMATE TOTAL BOOKS & FEES - SEVENTH SESSION		\$145.00

EIGHTH SESSION

DESCRIPTION	APPROXIMATE PRICE	
CADD 221 ELECTRICAL DRAFTING TECHNOLOGY THEORY		
DRAFTING FOR ELECTRONICS	0136021377	130.00
CADD 222 ELECTRICAL DRAFTING TECHNOLOGY LABORATORY		
CADD 222 Lab Fee		25.00
APPROXIMATE TOTAL BOOKS & FEES - EIGHTH SESSION		\$155.00

NINTH SESSION

DESCRIPTION	APPROXIMATE PRICE	
CADD 232 MECHANICAL DESIGN TECHNOLOGY LABORATORY		
CADD 232 Lab Fee		25.00
Balsa Bridge Materials including glue, sandpaper, paint, etc. (See instructor before purchasing)		25.00
Graduation Application Fee for First Certificate/Degree		20.00
Optional fee for any additional Certificate/Degree		(10.00)
APPROXIMATE TOTAL BOOKS & FEES - NINTH SESSION		\$70.00

APPROXIMATE TOTAL BOOKS, TOOLS, AND EXPENSES – CADD PROGRAM	\$1,341.00
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ANTICIPATE ADDITIONAL EXPENSES ASSOCIATED WITH THIS PROGRAM:
TEXTBOOKS ASSOCIATED WITH ACADEMIC COURSES,
 TRANSPORTATION, PARKING, CHILD CARE, HOUSING.