

# IDAHO STATE UNIVERSITY COLLEGE OF TECHNOLOGY

## PROGRAM TITLE: COMPUTER SOFTWARE DEVELOPMENT TECHNOLOGY

Information included in this handout may change at anytime without notice and should not be considered as a binding contract between Idaho State University and students.

### Program Options & Length:

Computer Software Development/Internet Programmer, Associate of Applied Science degree

4 1/2 semesters

**Entry dates  
for this program:**  
August

**Approximate cost  
for books, tools,  
& supplies:**  
**\$600.00**  
(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](mailto:ctech@isu.edu)  
[www.isu.edu/ctech/](http://www.isu.edu/ctech/)

**Job Description:** Students from this program will find work in the computer field in a variety of exciting work environments. Students possess a wide range of skills that can be applied in diverse job situations.

Students have competent skills in computer programming, systems analysis and design, database, networking, word processing, and spreadsheets. These skills can be utilized in companies that have microcomputers, mini-computers, or large computer mainframe installations.

On the job working situations will range from using word processors, spreadsheets, and database software application products, to developing on-line interactive systems using programming languages.

They will work with all departments in a company helping them analyze their computer needs. Together they will create a list of computer specifications to be accomplished on a variety of different computers. They will then determine the logical steps needed to produce the desired task. The task will then be accomplished via application software or programming. Before programming begins a prototype may be generated to give the requesting department a feel for the product that will be created. After modifications have been incorporated, programming begins. Programming involves taking precise specifications broken down into logical steps and writing code for the computer.

**COMPUTER OPERATORS** operate mainframe computers and related peripheral equipment in business settings.

Includes mainframe operation and monitoring, peripheral equipment operation and monitoring, disk and tape mounting and storage, printer operations, and related computer facility operations.

**COMPUTER PROGRAMMERS** work with users on project requirements, project definition, project design writing code in a programming language, debugging computer programs, documentation and much more.

**COMPUTER PROGRAMMER/ANALYSTS** prepares individuals to analyze business information needs and prepare specifications and requirements for appropriate data system solutions. Includes instruction in information requirements, analysis, specification development and writing, and prototype evaluation. Work is with internet programming to include Html, Perl, design and development of a Web server. Fundamentals of local area networks to include architectures, protocols, and implementations. Systems design and development is a capstone class that utilizes the skills learned in previous certificates to design and implement a software engineering system.

**INTERNET PROGRAMMERS** apply software theory and programming methods to the solution of business data programs using the Internet. May include designing customized Internet software applications, prototype testing on the World Wide Web, documentation, input specification, and database access.

**LANGUAGE SPECIALISTS** analyze business information needs and prepare specifications and requirements for appropriate data system solutions. Includes information requirement analysis, specification development and writing, and prototype evaluation.

### Helpful High School Courses:

Algebra  
English

Business Machine Operation  
Keyboarding

Business Math/Accounting  
Introduction to Computer Operation

## 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](http://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](mailto: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; Gravelly Hall, Room 123 Box 8121.E-mail [tonedenn@isu.edu](mailto: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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### COURSE SEQUENCE

The course sequence for the Computer Software Development Technology program is not yet available. The following is a list of the required courses for the Associate of Applied Science degree.

CSDT 119	Computer Programming Concepts I	5 cr
CSDT 120	Computer Programming Concepts II	5 cr
CSDT 181	Computer and Internet Fundamentals	4 cr
CSDT 184	Computer Operating Systems and Internet Servers	4 cr
CSDT 202	Browser Scripting Language	5 cr
CSDT 217	Internet Server Scripting	5 cr
CSDT 218	Internet Server Scripting Language II	5 cr
CSDT 220	Internet Programming	5 cr
CSDT 225	Internet Programming Concepts	5 cr
CSDT 227	Internet Page Design Languages	5 cr
CSDT 284	Oracle	4 cr
CSDT 286	Database Programming	5 cr
CSDT 288	Advanced Database Programming	4 cr
CSDT 289	E-Commerce Systems Analysis and Design	5 cr
TGE 158	Employment Strategies	2 cr

#### General Education Requirements:

ENGL 101	English Composition	3 cr
COMM 101	Principles of Speech	3 cr
Goal 3		3 cr
Goal 5		4 cr
Goals 6, 7, 9, 10A, 11 and/or 12		3 cr

TOTAL: 84 cr

A grade of 'C-' in any Computer Software Development Technology course will allow a student to continue; however, it could prevent a student from graduating if the cumulative grade point average is less than 2.0 ('C-' equals 1.7). A student must have a 2.0 Gpa in the program's required curriculum in order to be eligible for a certificate or degree.

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### BOOK AND TOOL LIST

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](http://www.efollett.com) or the bookstore's website at [www.isu.edu/bookstor](http://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**

### FIRST SEMESTER

#### I. BOOKS LISTED BY COURSE (CSDT 119, 120, 181)

DESCRIPTION	APPROXIMATE PRICE	
<b>CSDT 119 COMPUTER PROGRAMMING CONCEPTS I</b>		
STARTING OUT W/C++	1576761618	116.00
<b>CSDT 181 COMPUTER FUNDAMENTALS</b>		
COMPUTER LITERACY FOR IC3	0135017098	54.00
ESSEN GUIDE TO CSS & HTML WEB DESIGN	1590599075	35.00
Class fees (\$10.00 each for CSDT 119, 120, 181)		30.00
<b>APPROXIMATE TOTAL BOOKS - FIRST SEMESTER</b>		<b>\$235.00</b>

#### II. SUPPLIES AND OTHER EXPENSES

DESCRIPTION	APPROXIMATE PRICE	
3 - Diskettes, 3.5" High Density Micro		5.00
Calculator, Small pocket		15.00
Cobol Coding Sheets		3.00
Fee, Micro-Computer Lab (\$15 for each semester / \$5 for summer)		15.00
Flowchart template		1.00
Pens and Pencils		3.00
<b>APPROXIMATE TOTAL SUPPLIES AND OTHER EXPENSES - FIRST SEMESTER</b>		<b>\$42.00</b>

<b>APPROXIMATE TOTAL BOOKS &amp; SUPPLIES - FIRST SEMESTER</b>	<b>\$277.00</b>
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**SECOND SEMESTER****I. BOOKS LISTED BY COURSE (CSDT 217, 218)**

DESCRIPTION	APPROXIMATE PRICE	
<b>CSDT 217 INTERNET SERVER SCRIPTING</b>		
BEGINNING ACTIVE SERVER PAGES 3.0	0764543630	40.00
<b>CSDT 218 INTERNET SERVER SCRIPTING LANGUAGE II</b>		
BEGINNING ASP NET 3.5	0470187593	45.00
Fee, Micro-Computer Lab (\$15 for each semester / \$5 for summer)		15.00
<b>APPROXIMATE TOTAL BOOKS - SECOND SEMESTER</b>		<b>\$100.00</b>

**SUMMER SESSION****I. BOOKS LISTED BY COURSE (CSDT 286)**

DESCRIPTION	APPROXIMATE PRICE	
Fee, Micro-Computer Lab (\$15 for each semester / \$5 for summer)		5.00
<b>APPROXIMATE TOTAL BOOKS - SUMMER SESSION</b>		<b>\$5.00</b>

**THIRD SEMESTER****I. BOOKS LISTED BY COURSE (CSDT 225, 284)**

DESCRIPTION	APPROXIMATE PRICE	
<b>CSDT 225 INTERNET PROGRAMMING CONCEPTS</b>		
CORE WEB APPL DEV W/PHP & MYSQL (W/CD)	0131867161	55.00
<b>CSDT 284 ORACLE</b>		
DATABASE SYSTEMS USING ORACLE	0131018570	93.00
Fee, Micro-Computer Lab (\$15 for each semester / \$5 for summer)		15.00
Class fees (\$10.00 each for CSDT 225, 284)		20.00
<b>APPROXIMATE TOTAL BOOKS - THIRD SEMESTER</b>		<b>\$183.00</b>

**FOURTH SEMESTER****I. BOOKS LISTED BY COURSE (CSDT 220, 288)**

DESCRIPTION	APPROXIMATE PRICE	
Fee, Micro-Computer Lab (\$15 for each semester / \$5 for summer)		15.00
<b>APPROXIMATE TOTAL BOOKS - FOURTH SEMESTER</b>		<b>\$15.00</b>

**II. SUPPLIES AND OTHER EXPENSES**

<b>DESCRIPTION</b>	<b>APPROXIMATE PRICE</b>
Graduation Application Fee for First Certificate/Degree	20.00
Optional fee for any additional Certificate/Degree	(10.00)
<b>APPROXIMATE TOTAL SUPPLIES AND OTHER EXPENSES</b>	<b>\$20.00</b>

<b>APPROXIMATE TOTAL BOOKS &amp; SUPPLIES - TECHNICAL PROGRAM</b>	<b>\$600.00</b>
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ANTICIPATE ADDITIONAL EXPENSES ASSOCIATED WITH THIS PROGRAM:  
**TEXTBOOKS ASSOCIATED WITH ACADEMIC COURSES,**  
TRANSPORTATION, PARKING, CHILD CARE, HOUSING.  
YOU MUST CHECK YOUR CLASS SCHEDULE TO DETERMINE TEXTBOOKS REQUIRED BY INSTRUCTOR.