



Undergraduate Course Syllabus

IT 145: Foundation in Application Development

Center: Online

Course Prerequisites

IT-135 (UC only)

Course Description

This course is an introduction to the design, implementation, and understanding of computer programs. The course emphasizes programming as a problem-solving technique in business and engineering applications. Students will write computer code in a logical, structured, and organized manner. The course also covers the key concepts of object orientation, including inheritance, encapsulation, polymorphism, and communication with messages. Other topics include classes and objects, base classes and class hierarchies, and abstract and concrete classes. Students will learn to write, review, and document interactive applications and work with software development kits and integrated development environment tools. Offered every year. This is a lab-intensive programming course.

Course Outcomes

- Implement appropriate variables, operators, methods, and classes as they are used in object-oriented programming for developing successful programs
- Utilize appropriate syntax and conventions in terms of their best practice and use in programming
- Debug coding errors by testing existing code, identifying errors, and correcting errors for improved functionality
- Assemble basic, working programs that effectively integrate essential elements of object-oriented programming

Required Materials

Using your learning resources is critical to your success in this course. Please purchase directly through SNHU's online bookstore, [MBS Direct](#), rather than any other vendor. Purchasing directly from the bookstore ensures that you will obtain the correct materials and that the Help Desk, your advisor, and the instructor can provide you with support if you have problems.

Programming in Java

Southern New Hampshire University

ZyBooks

ZyBooks

To access your ZyBooks resource, complete the following steps:

1. Sign up at zybooks.zyante.com
2. Enter ZyBooks code: **SNHUIT145AY15-16**
3. Input your access key into the appropriate field
4. Click **Subscribe**

Skillsoft

This course requires the use of Skillsoft for access to the e-book that you can use throughout the course. You will access Skillport through the following link: <https://snhu.skillport.com>.

You will be enrolled in Skillsoft to utilize the following book, in addition to assigned videos:

Beginning NetBeans IDE: For Java Developers

Geertjan Wielenga

Apress

First Edition

2015

ISBN: 978-1-4842-1258-5

<https://snhu.skillport.com/skillportfe/main.action?path=summary/BOOKS/97503>

Software

Java Development Kit (JDK)

<http://www.oracle.com/technetwork/java/javase/downloads/index.html>

NetBeans IDE

Version 8.0.2

Oracle

<https://netbeans.org/downloads/8.0.2/>

Microsoft Imagine

Southern New Hampshire University students are able to obtain discounted, often free, Microsoft software for IT and DAT courses through the Microsoft Imagine program. Go to the [SNHU Academic Software Center](#) and request an account from the right panel to begin managing your software. If you have trouble downloading and installing the software, please request access to SNHU's virtual desktop (VDI) environment from your instructor.

Instructor Availability and Response Time

Your class interaction with the instructor and your classmates will take place in Blackboard on a regular, ongoing basis. Your instructor will be actively engaged within the course throughout the week. You will normally communicate with your instructor in the weekly discussions or the General Questions forum in Blackboard so that your questions and the instructor's answers benefit the entire class. You should feel free, however, to communicate with your instructor via SNHU email at any time, particularly when you want to discuss something of a personal or sensitive nature. Your instructor will generally provide a response within 24 hours.

Grade Distribution

Assignment Category	Number of Graded Items	Point Value per Item	Total Points
Discussions	3	30	90
Journals	4	45	180
zyBooks Participation Activities	7	40	280
zyBooks Labs	11	10	110
Assignment	1	35	35
Application Activity	1	20	20
Final Project			
Milestone One	1	75	75
Final Project Submission	1	210	210
		Total Course Points:	1,000

This course may also contain practice activities. The purpose of these non-graded activities is to assist you in mastering the learning outcomes in the graded activity items listed above.

University Grading System: Undergraduate

Grade	Numerical Equivalent	Points	<i>Total Points. 1,000</i>	
			<i>Lower</i>	<i>Upper</i>
A	93-100	4	930	1000
A-	90-92	3.67	900	929
B+	87-89	3.33	870	899
B	83-86	3	830	869
B-	80-82	2.67	800	829
C+	77-79	2.33	770	799
C	73-76	2	730	769
C-	70-72	1.67	700	729
D+	67-69	1.33	670	699
D	60-66	1	600	669
F	0-59	0	0	599
I	Incomplete			
IF	Incomplete/Failure*			
IP	In Progress (past end of term)			
W	Withdrawn			

*Please refer to the [policy page](#) for information on the incomplete grade process.

Grading Guides

Specific activity directions, grading guides, posting requirements, and additional deadlines can be found in the Course Information area in the Assignment Guidelines and Rubrics folder.

Weekly Assignment Schedule

The Learning Modules area in Blackboard contains one module folder for each week of the course. All reading and assignment information can be found in the folders. Assignments and discussion board posts during the first week of each term are due by 11:59 p.m. Eastern Time. Assignments and discussion posts for the remainder of the term are due by 11:59 p.m. of the student's local time zone.

In addition to the textbook readings that are listed, there may be additional required resources within each module in Blackboard.

Module	Topics and Assignments
1	Getting Started With Java <i>Programming in Java</i> , Module One: Introduction 1-0 zyBooks Participation Activities 1-1 Discussion: Ethical Coding Practices 1-2 zyBooks Activity: Introduction to Java Programming (Labs 1.12.1 and 1.13.1) 1-3 Application Activity: Installing the Integrated Development Environment (IDE) and Formatting
2	Building on the Basics <i>Programming in Java</i> , Module Two: Variables/Operators 2-0 zyBooks Participation Activities 2-1 zyBooks Activity: Operators Debugging (Labs 2.19.1 and 2.20.1) 2-2 Assignment: Pseudocode and Build 2-3 Journal: Skill Building
3	Decision Structures <i>Programming in Java</i> , Module Three: Decision Structures 3-0 zyBooks Participation Activities 3-1 zyBooks Activity: Conditionals Program (Labs 3.14.1 and 3.15.1) 3-2 Journal: Skill Building
4	Loops <i>Programming in Java</i> , Module Four: Loops 4-0 zyBooks Participation Activities 4-1 zyBooks Activity: Loops Program (Lab 4.11.1) 4-2 Journal: Skill Building
5	File Streaming <i>Programming in Java</i> , Module Five: File Streaming 5-0 zyBooks Participation Activities 5-1 zyBooks Activity: File Streaming (Lab 5.6.1) 5-2 Milestone One: Pseudocode Submission 5-3 Journal: Skill Building

6	User-Defined Methods, Objects, and Classes <i>Programming in Java</i> , Module Six: MethodsObjectsClasses 6-0 zyBooks Participation Activities 6-1 Discussion: Peer Review of Milestone One Pseudocode 6-2 zyBooks Activity: User-Defined Methods, Objects, and Classes (Lab 6.20.1) 6-3 Reminder: Final Project
7	Final Project 7-1 Final Project Submission: Authentication or Monitoring System
8	Wrap-Up and Arrays <i>Programming in Java</i> , Module Eight: Arrays 8-0 zyBooks Participation Activities 8-1 Discussion: Defects and Bugs in Programming 8-2 zyBooks Activity: Arrays (Lab 7.5.1)

Attendance Policy

Online students are required to submit a graded assignment/discussion to Blackboard during the first week of class. If a student does not submit a posting to the graded assignment/discussion during the first week of class, the student is automatically withdrawn from the course for non-participation. Review the [full attendance policy](#).

Late Assignments Policy

Meeting assigned due dates is critical for demonstrating progress and ensuring appropriate time for instructor feedback on assignments. Students are expected to submit their assignments on or before the due date. Review the [full late assignment policy](#).

SNHU College of Online and Continuing Education Student Handbook

Review the [student handbook](#).

Diversity and Disability Statement

The College of Online and Continuing Education (COCE) at SNHU values diversity and inclusion. SNHU strives to create inclusive and welcoming academic environments. If there are aspects of the instruction or design of this course that present barriers to your inclusion, please notify the Disability Resource Center (DRC) as soon as possible. We will work with you and your instructor to address needs and concerns. We encourage all students with known or suspected physical, medical, sensory, psychiatric, and/or learning disabilities to register with the Disability Resource Center (DRC) in order to assess learning needs and take advantage of available academic accommodations and support services.

SNHU does not discriminate on the basis of race, color, national origin, sex, disability, age, religion, citizenship, marital status, gender identity or expression, sexual orientation, veteran/military status, or genetic information in its programs and activities. Requests for disabilities accommodations within COCE should be directed to:

Disability Resource Center (DRC)

(866) 305-9430

(877) 520-8916 (fax)

drc@snhu.edu

We welcome COCE students, faculty, and staff to consult with the Disability Resource Center (DRC) on disability-related questions or concerns. We look forward to hearing from you.

Complaints regarding discrimination and accommodations should be directed to:

(603) 645-9664

(603) 645-9717 (fax)

adacompliance@snhu.edu

Academic Honesty Policy

Southern New Hampshire University requires all students to adhere to high standards of integrity in their academic work. Activities such as plagiarism and cheating are not condoned by the university. Review the [full academic honesty policy](#).

Copyright Policy

Southern New Hampshire University abides by the provisions of United States Copyright Act (Title 17 of the United States Code). Any person who infringes the copyright law is liable. Review the [full copyright policy](#).

SNHU College of Online and Continuing Education Withdrawal Policy

Review the [full withdrawal policy](#).

Southern New Hampshire University Policies

More information about SNHU policies can be found on the [policy page](#).

Assessment Calibration and Student Work Samples

For the purpose of continuous improvement of our educational training, Southern New Hampshire University's College of Online and Continuing Education may, on occasion, utilize anonymous student work samples for internal professional development and staff training. If you have any questions or concerns, contact your advisor. If you would like to withdraw permission for use of your work, please contact the assessment calibration administrator at assessmentcalibration@snhu.edu. See [this document](#) for more information.