# Syllabus 2024 Fall

# CS 499-001 and CS 499-301

Senior Design

# CREDITS: 2

# General Information

## Contact Your Instructor

**Name:** R.B.Abhyankar

**Email:** RB.Abhyankar@indstate.edu

**Office:** TC 301K

## Lecture , Exam, Office Hours

Lecture: 1:00 p.m. to 1:50 p.m. MW

**Final Exam:** You will take the Final Exam in the Finals Week.

More details about the Final Exam will be provided later.

**Instructor Office Hours: 8:30 a.m. to 9:30 a.m. MWF**

Please call: 812-299-5177. After contact via phone, a Zoom session can also be initiated, if needed:

Zoom: <https://indstate-edu.zoom.us/j/8592537863>

Email: [RB.Abhyankar@indstate.edu](mailto:RB.Abhyankar@indstate.edu)

**Website**: There is a CANVAS Site for the course.

## Prerequisites

A grade of C or better in CS 201

## Required Textbooks

[1] “Head First Object Oriented Analysis and Design” by Brett D. McLaughlin et al , O’Reilly , 2007, ISBN: 978-0-59600867-3.

[2] “Java in Easy Steps, 7th edition,” by Mike McGrath, EasySteps, 2021 , ISBN: 978-1-84078-873-0.

[3] “Applying UML and Patterns, Third Edition” by Craig Larman, Prentice-Hall, 2005, ISBN: 978-0131-489066.

[4] “Petri Net Theory and the Modeling of Systems” by James L. Peterson (Amazon Kindle Edition, 2019)

**Course Announcements**

You should regularly visit the CANVAS site for the course, and check for assignments, and other announcements.

# Course Description

The official description of this course from the catalog is :

The senior design is a two semester sequence. Students enroll during their last two terms. Students complete an independent project involving the entire development cycle - requirements/needs analysis, prototyping, testing, deployment, maintenance. Students also prepare for the process of applying for and interviewing for jobs or a graduate program.

Tentative Schedule (Subject to Change)

Week 0: Introduction

Weeks 1-2: Java: Getting Started, Performing Operations, Making Statements, Directing Values, Manipulating Data

Weeks 3-4: Creating classes, Importing Functions, Building Interfaces, Recognizing Events, Deploying Programs

Week 5: So how do you really write great software ?

Week 6: Everybody Loves a Satisfied Customer

Week 7: Think You Have Got Just What the Customer Wanted ? Not so fast…

Week 8: It’s time to graduate to real-world applications

Week 9: Change is inevitable

Week 10: Ever wished you were just a bit more flexible ?

Week 11: It’s time to build something Really Big

Week 12:You Have to Start Somewhere

Week 13: Originality is Overrated

# Learning Outcomes

After completing the course, the student should be able to explain and utilize software life-cycle concepts and techniques.

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# Grading and Assignments

DISTRIBUTION OF POINTS

Assignments: 60 %

Quizzes: 20 %

Final Exam: 20 %

## CS Course Policies

Note that this course follows all standard CS course policies. In particular check the CS course policies related to - cheating/plagiarism, attendance, missing exams. See <http://cs.indstate.edu/info/policies.html> for details.

## Late Homeworks/ Assignments

Late submission of assignments may not earn full credit due.

LATE SUBMISSIONS MUST BE UPLOADED AS COMMENTS ON CANVAS, FOR PARTIAL CREDIT.

IF YOU HAVE DIFFICULTY WITH THIS, PLEASE CONTACT OIT.

PLEASE DO NOT EMAIL LATE SUBMISSIONS TO ME.

## Grade Cutoffs

GRADING SCALE:

Percentage Minimum Grade

60% and above S (satisfactory)

Below 60% U (unsatisfactory)

# CANVAS

The course has a CANVAS site.

**Americans with Disabilities Act (ADA) Statement:**

Indiana State University recognizes that students with disabilities may have special needs that must be met to give them equal access to college programs and facilities. If you need course adaptations or accommodations because of a disability, please contact us as soon as possible in a confidential setting either after class or in my office. All conversations regarding your disability will be kept in strict confidence.

Indiana State’s Accessibility & Advocacy Resources Office coordinates services for students with disabilities: documentation of a disability needs to be on file in that office before any accommodations can be provided. The Accessibility & Advocacy Resources Office is located at HMSU room 816. They can be contacted at 812-237-3829 or isu-aaro@indstate.edu. Appointments to discuss accommodations with the Accessibility Resources Office staff are encouraged.

Once a faculty member is notified by the Accessibility Resources Office that a student is qualified to receive academic accommodations, a faculty member is obligated to provide or allow a reasonable classroom accommodation under ADA.