

CISY 254-01x Data Structures
Spring 2017 CRN: 21705 [Honors CRN: TBD]
Syllabus v0.0

Section Info

Section 01x - CRN 21705 [Honors CRN: TBD]

Monday 1:00 pm - 3:50 pm West Building W309

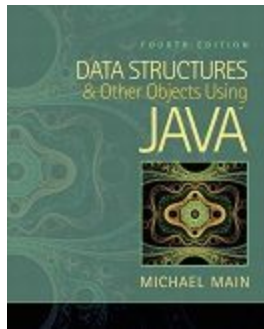
Thursday 3:00 pm - 4:50 pm West Building W309

Versions

- Version 0.0 - 12/29/2016 - First Draft

Book Information

Data Structures & Other Objects Using Java, Michael Main, 4th Edition



Picture of book: (click me)

Instructor

Name: Stephen T. Brower

Office: West Building W324

Work # (908) 526-1200 x8259

preferred email: stephen.brower@raritanval.edu

[...for those who had Brower before the Spring 2015 semester, this is a NEW email...]

Website

Website has information on any changes to office hours (example: no office hours during spring break)

Website has a link to the class page for this course where you can get the Syllabus and Class Schedule

Website does not require you to logon to either Lion's Den or WebStudy

See: <http://rvccmccs01.raritanval.edu/~sbrower/>

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Spring 2017 Office Hours (1/18 - 5/1)

- Wednesday 1:00 - 2:30 [excluding 3/8]
- Thursday 5:00 - 6:30 [excluding 3/9]
- Friday 9:30 - 11:30 [excluding 3/3 and 3/10]
- AND by appointment

Course Overview

Prerequisite: CISY 105 Foundations of Computer Science or CISY 242 Object Oriented Programming:

This course introduces students to the fundamental data structures used in Computer Science. The data structures covered include linked lists, doubly linked lists, stacks, queues, trees, and graphs. Algorithms that manipulate these data structures are discussed and used in laboratory work. Students are introduced to the run-time analysis of algorithms and basic algorithms for searching and sorting.

Honors Option

An Honors Option is available for this course.

"Definition: Students pursuing the Honors Option will be required to demonstrate a higher level of knowledge and skill in each of their course programming projects. They will be required to take the concepts introduced and generalize them for broader application. Students will also do independent work researching application programming interfaces." (Master Course Outline)

For this Honors Option, the demonstration of a higher level of knowledge and skill will be through enhanced Labs and Projects. The independent work for research will be through additional research components for Homework

The expectation is that all of the 'honors option' exercises be completed. However, since the 10th day is the last day to switch to the honors option section, then the expectation is that 90% of the 'honors option' exercises be completed. If more than 10% of the 'honors option' exercises are not completed then for the assignments completed without the honors option beyond 10% of the assignments a penalty will be assessed

Enrolling in the Honors Option Section: By the "10th Day of the semester" (~1/26) fill out an Add/Drop form that drops Section 01X and adds Section 01H and get the instructor's signature (by ~1/26) and the department chair. After the form is filled out and signed then take it to the registrar.

Exiting the Honors Option Section: If you wish to switch back to the regular section, by the withdrawal date (4/7), fill out an Add/Drop form that drops Section 01H and adds Section 01X

CISY 254-01x Data Structures
Spring 2017 CRN: 21705 [Honors CRN: TBD]
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and get the instructor's signature and the department chair. After the form is filled out and signed then take it to the registrar.

Software / Computer Requirements

Although there is lab time incorporated into the class, there may not be enough time to work on the projects during class time. You may need access to a computer with Java outside of class.

If you do not own a computer, you can use the Open Lab on the second floor of the West Building which is open 6 days a week. See the hours posted outside the Open Lab

If you own a computer you can download the Java JDK and either NetBeans or TextPad which will replicate the setup that we have on campus. There are links from the instructor's Course Web Page with some information.

WebStudy, will be used for distribution of files and notes.

Course Routine

Classes will usually consist of 3 possible segments: Lecture, Lab Lecture, and Lab Time

Lecture - A majority of the lectures will be on topics within Data Structures. Some of the lecture will be the theoretical nature of Data Structures, which will include a number of crudely drawn pictures, a discussion of algorithms that act on Data Structures, and in some cases Pseudocode.

Lab Lecture - the Lab Lecture will be an introduction to the week's lab which could be a review of the topic(s) introduced in the Lecture or simply "here".

Lab - Hands on lab time - Lab will be for individual work using the computer to implement Data Structures in Java to solve problems, or working on Homework. Take as many breaks as needed.

If you finish the lab early, you should look ahead on the Class Schedule to work on the next computer project (if posted) or do the next homework that is due

"Most weeks", Lecture will be on Thursdays and last about 2 hours and the following Monday will be the Lab which will be about 3 hours.

CISY 254-01x Data Structures
Spring 2017 CRN: 21705 [Honors CRN: TBD]
Syllabus v0.0

Grade Determinants:

Item	Percent
Homework	20%
Labs	20%
Projects	20%
Mid-Term Exam	15%
Final Exam	25%

Grade % Range

A	89.5-100.0+
B+	86.5-89.4
B	79.5-86.4
C+	76.5-79.4
C	69.5 - 76.4
D	59.5 - 69.4
F	0 - 59.4

Homework

The Homework will be distributed following the lecture and will also be posted in WebStudy.

Homework must be submitted electronically via email to stephen.brower@raritanval.edu :

- Typed in an email
- Typed and saved as a **.docx** or **.rtf** file and emailed
- Handwritten, scanned/photo'd and the image emailed

Homework Honors Option - Students in the Honors Option may have additional research components added to a number of the Homework Assignments

See below for the Late Policy (-10% a calendar day) and the Cheating Policy (don't cheat)

Labs

For classes that introduce new Data Structures, the first In-Class Lab on a topic may be a drawing showing a series of operations on a Data Structure. Other In-Class Labs may be programs in Java to implement a Data Structure to solve some problem.

CISY 254-01x Data Structures
Spring 2017 CRN: 21705 [Honors CRN: TBD]
Syllabus v0.0

Usually, in-Class Labs are due at the end of the "Lab" class (Mondays) by 3:50 pm The instructor will review the lab before the beginning of lab time.

.java files should be emailed as attachments to the instructor's preferred email account [stephen.brower@raritanval.edu]

Lab Honors Option - Students in the Honors Option will have additional requirements/enhancements for a number of the In-Class Labs

See below for the Late Policy (-10% a calendar day) and the Cheating Policy (don't cheat)

Projects

The idea behind projects is that they are more complex than labs and are used to demonstrate mastery of Data Structures.

There may not be time to complete the project during lab time.

Java is in the open Lab in the West Building which is open 6 days a week. Java is also available for download from the Oracle WebSite. See the instructor's web site for more information.

.java files for projects should be emailed as attachments to the instructor's preferred email account [stephen.brower@raritanval.edu]

Project Honors Option: Students in the Honors Option will have additional requirements/enhancements for a number of the Projects

See below for the Late Policy (-10% a calendar day) and the Cheating Policy (don't cheat)

CISY 254-01x Data Structures
Spring 2017 CRN: 21705 [Honors CRN: TBD]
Syllabus v0.0

Exams

Note the Class Schedule for the dates of the exams. If you are late for the exam, you will only have the time until the scheduled end of the exam.

Exams must be taken on days assigned. If you know ahead of time that you cannot make an exam, ask the instructor to arrange for the exam to be left in the testing center or to arrange another time.

Failure to notify the instructor that the Mid-Term exam will be missed will result in a makeup that *might* be harder, *not by design, but by consequence of being different*. Missing the Final Exam will result in a 0 on the Final Exam so that grades can be submitted on time.

The Mid Term Exam will be one hour long; the Final Exam will be two hours long. Both exams will be closed note /closed book / closed computer, and cumulative up to that point.

The Final Exam will not begin at the same time as the class normally does, so make note of the time posted on the class schedule.

Exam Honors Option: - Students in the Honors Option will have additional requirements/enhancements for a number of the questions

Cheating Policy

Don't cheat!

Cheating is not allowed on Homework, Labs, Projects, and Exams. All parties involved in cheating will receive a 0 and will be reported to the dean. Excessive cheating within the class can result in an F for the course. Excessive cheating at RVCC can result in expulsion. Consult your student manual.

NOTE: you have permission to use the instructor's demo .java files, in whole or in part, for your labs and projects

Late Policy

For those that had a class with Brower before the Spring 2015 semester take note: this is a different policy than in the past

Assignments will not be accepted after being 1 week late.

Assignments received after the due date will be considered late and will be penalized 10 points per calendar day. Assignments 7 calendar days late will receive a 0 and the 0 will be used in the

CISY 254-01x Data Structures
Spring 2017 CRN: 21705 [Honors CRN: TBD]
Syllabus v0.0

calculation of your average. Assignments will not be accepted after being 7 days late. **Late Assignments will not be accepted after 4/24**

"Life Happens" - for Homework, Labs, and Projects you are allowed 1 "Life Happens" for each category. A Life Happens allows an assignment to be submitted **one week late** and be considered on time. Life Happens cannot be used more than 1 week after an assignment is due.

Note: you have to submit an assignment to be graded for the Life Happens. You cannot just say "life happens" and expect to see 100 on the grade book.

"Life Happens" cannot be used after 4/24. That means no Life Happens for the last Project

Extra Credit

Some exams/homework/labs/projects contain extra credit questions/opportunities. Other than that, no extra credit opportunities will be provided.

For example, if you choose not to submit ANY homework and then in April you ask for "Extra Credit" to make up for the missed homework, the answer is NO.

Additional Policies

Classroom Behavior

Cell Phones: For the "lectures" please silence cell phones. It is understood that there may be times when emergency calls occur or the "pick me up at the airport" call needs to happen. For those calls please step into the hallway to take the call. During lab time, you can turn the sounds back on the cell phones.

Talking: For the "lectures" please don't talk. It is understood that you may need to turn to a neighbor for the occasional question like "what slide is he on?" or "which file is that?" or "what page # did he say?" and that's fine. It is the full conversations that are distracting not only to me but to the class as a whole. For the Lab Time you can talk all you want, but "indoor voices" please.

Language: The instructor will try his darn-doodliest to not swear during class time but an occasional expletive may slip out. Please try your darn-doodliest not to swear but don't fear reprisals if an occasional expletive slips out.

Proper Use of Computers:

Lecture: the instructor is easily distracted by typing and would prefer that computers are not used during the lecture. **Printing during lecture is extremely distracting and very upsetting**

CISY 254-01x Data Structures
Spring 2017 CRN: 21705 [Honors CRN: TBD]
Syllabus v0.0

Pointing and laughing at the monitors is very distracting. If class members repeatedly distract the instructor, then all computers and laptops must be closed down.

Lab: During lab time everyone should be working on the labs/projects/homework. None of the labs/projects/homework require social media sites.

Class Attendance

Students are expected to attend all classes for every course in which they are enrolled. To accommodate students' reasonable, personal situations that might prevent them from attending classes, each student is entitled to excused absences amounting to the equivalent of one week's class time in a semester. Absences in excess of this standard are handled individually by each faculty member. A student with absences amounting to one-fifth or more of the term's lecture or laboratory classes is subject to administrative withdrawal by the Dean of Instruction upon the recommendation of the faculty member.

Note: sometimes attendance is taken based on what graded items were not returned. If you come in late and see that graded items were returned, please wait for a break or Lab Time to get your graded items

Delayed Opening

If the College announces a delayed opening at any location due to inclement weather or other emergency situation, all offices will be closed and all College classes and/or other activities will be suspended at that location until the delayed opening time. Classes scheduled to begin before the delayed opening time that have 60 minutes or more of instruction time remaining at the delayed opening time will begin at the delayed opening time and conclude at the regularly scheduled ending time. Classes scheduled to begin before the delayed opening time that have fewer than 60 minutes of instruction time remaining at the delayed opening time will be canceled. Classes scheduled to begin at or after the delayed opening time will meet as scheduled.

Translation/Adjustment: for this class,

For a delayed opening of 2:00 on Monday, our class will still meet, but a delayed opening of 3:00 on Monday, our class will not meet.

For a delayed opening of 3:30 on Thursday, our class will still meet, but a delayed opening of 4:00 on Thursday, our class will not meet.

Reasonable Accommodation

CISY 254-01x Data Structures
Spring 2017 CRN: 21705 [Honors CRN: TBD]
Syllabus v0.0

Students with disabilities who require accommodations (academic adjustments and/or auxiliary aids or services) for this course MUST provide documentation of accommodations from the RVCC office of Disability Services, C143. No accommodations will be made without this documentation.

Student Handbook

You are responsible for all policies stated in the Student Handbook.

See: http://commons.raritanval.edu/studenterv/conduct/pages/Policies_and_Documents.aspx

Withdrawal Procedure

See school's webpage for Spring 2017 Withdrawal and Refund Schedule and Refund Info

(see:

<http://commons.raritanval.edu/admin/finance/Documents/Spring%202017%20WithdrawalRefundSchedule.pdf>)

(see: http://commons.raritanval.edu/admin/finance/Pages/refund_info.aspx)

Class Schedule

Please see the Class Schedule for the listing of lecture topics and timing of homework / labs / projects / exams

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