### **Section Info**

Section 51x - CRN 14753

Wednesday 5:30 pm - 10:15 pm West Building W311

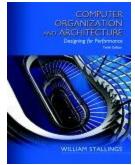
### Versions

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

### **Book Information**

There are two books for the course:

Computer Organization & Architecture, William Stallings, Pearson/Prentice Hall, 10th Edition

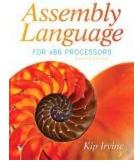


Picture of book:

(click me)

^^ if you do homework at home, you can leave this book at home

Assembly Language for Intel-Based Computers, Kip Irvine, Pearson/Prentice Hall, 7th Edition



Picture of book:

(click me)

^^ because the labs will be in Assembly Language, bring this one to class

Author's Website with Visual Studio Assembly Library: <a href="http://kipirvine.com/asm/">http://kipirvine.com/asm/</a>

#### Instructor

Name: Stephen T. Brower Office: West Building W324

Work # (908) 526-1200 x8259

preferred email: <a href="mailto:stephen.brower@raritanval.edu">stephen.brower@raritanval.edu</a>

[...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 on Thanksgiving)

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/

## Fall 2017 Office Hours (9/6 - 12/14)

- Monday 1:00 3:00
- Tuesday 3:00 5:00 [ excluding 11/21 ]
- Thursday 3:00 5:00 [ excluding 11/23 ]
- AND by appointment

## **Course Overview**

This course, which is required for Computer Science students, focuses on the components of computer architecture: storage, data types and structure, instruction set and addressing modes. The course examines the way these components are interconnected and the nature of information flow between them. Students will use Assembler language to reinforce these concepts.

### **Course Routine:**

Most nights will be broken into 4 segments: Architecture Lecture, Assembly Lecture, Lab Lecture, Lab

Architecture Lecture: This lecture will be on the Computer Architecture material.

Assembly Lecture: This lecture will be on the Assembly Language material and will include demonstrations in Assembly Language. Students are encouraged to experiment in Assembly

Lab Lecture: The Instructor will introduce the Lab for the evening. It will vary week to week how long the introduction will take. It could be as short as a few seconds or as long as 15 minutes.

Lab: This is lab time to work on the Assembly Language Labs and Project. Almost every week there will be an assembly lab. During lab time take as many breaks as you need.

## **Grade Determinants:**

Item	Percent
Homework	10%
Assembly Labs	25%
Architecture Labs	5%
Assembly Project	10%
Exam #1	15%
Exam #2	15%
Final Exam	20%

### Grades

# 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

### Software

The author of the Assembly book, Kip Irvine, has installation/running notes on his web page: See <a href="http://kipirvine.com/asm/">http://kipirvine.com/asm/</a> and then click on "Getting Started with MASM and Visual Studio 2015"

Visual Studio 2015/2017 is installed in the classroom.

There are only 8 computers in the open lab in the West Building that have Visual Studio

If you want to install Visual Studio at home, email Brower and ask for access to the site. He will email the help desk and they will email you back with account info.

This process takes time so don't wait until the Project is due to ask for access to the software

#### Homework

Homework will only be from the Architecture book and the page/question numbers will 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

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

## **Assembly Labs**

The Assembly Labs will be distributed on paper in class and will also be posted in WebStudy, but not until class time.

The Assembly Labs correspond to the chapters covered in the Assembly book. They are the "In-Class Labs". The intent is that the labs can be completed in about 2-3 hours. Some labs have multiple parts.

To submit the lab the \*.asm file(s) must be emailed AS ATTACHMENTS to the instructor's preferred email account [ stephen.brower@raritanval.edu ]. This way the instructor can run the assembly code.

Assembly Labs are due by the end of class (10:15pm)

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

#### **Architecture Labs**

The problem based questions that would have been part of the homework, will now be done during class time as a "Architecture Lab". Only about half of the weeks will have an Architecture Lab.

The Architecture Labs will be distributed on paper in class and you will return the paper. These Architecture Labs can be done in small groups (2-3 per group)

The Architecture Labs are due by the end of class (10:15pm)

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

# **Assembly Project**

The Assembly Project will be distributed on paper in class and will also be posted in WebStudy.

Unlike the Assembly Labs which can be done in 2-3 hours, the Assembly Project will be a larger more complicated program which will take longer to write. Students in the past ignored this warning, waited until the night it was due, were unable to complete it in time, and complained that Brower is a lousy instructor.

See below for the Cheating Policy (don't cheat) The assembly project will not be accepted late and there is no "Life Happens" for the project.

#### Exams

The schedule has the dates/times of the exams.

Exam 1 will be closed note / closed book / no electronic devices and will be on Architecture and Assembly. The Architecture part will be Short Answer and "Problem" type questions. The Assembly part will have questions that will be either to hand write a few lines of assembly code or some code will be provided and you have to describe the output and/or show the contents of the registers in hexadecimal.

Exam 2 will be an open note / open book / open computer "hands on" exam in Assembly.

The Final Exam will be closed note / closed book / no electronic devices. The format will be like Exam 1.

### **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 7 days.

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 calculation of your average. Assignments will not be accepted after being 7 days late.

Late Assignments will not be accepted after 7 days and nothing late will be accepted after 12/6

### "Life Happens"

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

For Homework and Labs you are allowed 1 "Life Happens" for each category. A Life Happens allows an assignment to be submitted up to 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 12/6. That means no "Life Happens" for the assembly project.

# **Cheating Policy**

You must work alone on the Homework, Assembly Project, and Assembly Labs. Cheating is not allowed. All parties involved in cheating will be dealt with according to the school's policy on cheating. The penalty can range from 0 on the assignment to F for the course.

For the assembly, asking the instructor for hints is not considered cheating. If the Academic Support Center provides tutoring for Assembly and they "assist" you in the debugging, that is not considered cheating.

For the Architecture Labs, groups of 2-3 students are allowed, but a group can't copy from another group. Eavesdroppers will be heckled.

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

### **Extra Credit**

Some exams/assignments 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 December 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.** 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/project. None of the labs/research projects 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:** Based on past history (last 18ish years for me), night classes do not delay beyond 5:30

#### Reasonable Accommodation

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: <a href="http://commons.raritanval.edu/studentserv/conduct/pages/Policies">http://commons.raritanval.edu/studentserv/conduct/pages/Policies</a> and Documents.aspx

### Withdrawal Procedure

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

Note: 11/17 last day to withdraw

( see:

https://commons.raritanval.edu/admin/finance/Documents/Fall%202017%20WithdrawalRefund%20Schedule%20and%20Enrollment\_Payment%20Calendar.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 / project / exams

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