

Division: Computer Science Information Technology

Course name: CSIT 942 DISCRETE STRUCTURE

Section: 8509 / Semester Fall 2015

**Instructor Name: Y. Yuen**

**School Website: [www.wlac.edu](http://www.wlac.edu)**

**9:00 a.m. – 11:55 a.m. Room: CE106A**

**Office Hours: Saturday**

**Instructor E-mail: [yueny@wlab.edu](mailto:yueny@wlab.edu)**

**8:30 a.m. to 9:00 a.m.**

**11:55 a.m. – 12:25 p.m. in Room CE 106A**

**Please send me email to reserve the office hours two days in advance.**

**Online Hours: Monday evening**

**I will be online to check email questions every Monday evening from 9:00 PM to 10:05 PM**

**Important dates to remember:**

**Last day to drop class w/o a “W” is Sept 11, 2015**

Last day to drop a class with a “W” is Nov 20, 2015

## **Welcome**

This semester, you will work to understand the discrete structures used in Computer Science logic with an emphasis on their applications. Topics covered include: Sets, Functions, Sequences, Sums, Matrices; Algorithms, Number Theory and Cryptography, Recursion, Counting, Probability, Relations, Graphs, Trees, Boolean Algebra and Modeling Computation.

However, your education is ultimately YOUR responsibility. YOU determine your level of success. Successful college students are self-motivated. Successful college students understand the importance of studying the material, coming to class prepared and practicing skills learned. YOU CAN DO IT and I’m here to help. ☺

The following lists show all available Certificate programs currently offered in the CSIT department in our college.

**CS Division Web Site** <http://www.wlab.edu/CSIT> with the following useful information:

Division Announcement – Scholarship and Internship Opportunities

CS Instructor Office Hour and Computer Lab Open Hour

Petition for Degree & Certificate

Petition for Prerequisite Challenge

Declare a Major – to be eligible for scholarship and internship

Discount Voucher for CompTIA A+ Network+ Security+ Linux+

Free Software Download (Windows 7, Server 2008, VMWare, Microsoft ACCESS and Visio Studio)

Requirement for AA/AS degree and Certificate of Achievement in the following :

Degree and Certificate in Computer Science (10 major courses)

Degree and Certificate in Computer Network and Security Management (10 major courses)

Degree and Certificate in Computer Web Support and Database Administration (10 major courses)

Certificate of Achievement in Computer Network Management ( requires 6 courses)

Certificate of Achievement in Information System Security (requires 6 courses)

Certificate of Achievement in Business Application and Database Management (requires 6 courses)

Certificate of Achievement in Web Support and Administration (requires 6 courses)

Please note that students must declare a major in order to become eligible for CS scholarship and internship opportunities. To declare a major, please obtain the form of change request from CS division website [www.wlac.edu.csit](http://www.wlac.edu.csit) click the link on the left menu.

By default, your instructor can be the faculty advisor; please see your instructor during the posted office hour OR you can make an appointment with the following fulltime faculty advisor:

Ashok Patil –Degree, transfer, and certificate in Computer Science- [PatilA@wlab.edu](mailto:PatilA@wlab.edu)

Anna Chiang-Degree, transfer and certificate in Computer Information Science/Computer Network and Security Management- [ChiangA@wlab.edu](mailto:ChiangA@wlab.edu)

Marcus Butler-Microsoft, CISCO, VMWare training [ButlerM@wlab.edu](mailto:ButlerM@wlab.edu)

Manish Patel-Degree and certificate in Web development and Database Admin- [PatelM@wlab.edu](mailto:PatelM@wlab.edu)

**Course Description:**

This course is designed to provide students the knowledge to the discrete structures theory used in Computer Science with an emphasis on topics covered include: Sets, Functions, Sequences, Sums, Matrices; Algorithms, Number Theory and Cryptography, Recursion, Counting, Probability, Relations, Graphs, Trees, Boolean Algebra and Modeling Computation.

*Prerequisite: Any object-oriented language such as Java or C++, or with equivalent programming knowledge and experience. Students without object-oriented programming knowledge should take the Java and C++ prior to enroll in this class to avoid failure in this class.*

### Required Texts:

Discrete Mathematics and its Applications

by Kenneth H. Rosen

ISBN-10 : 0-07-338309-0

ISBN-13 : 978-0-07-338309-5

### Recommended Materials:

N/A

### Required Materials:

- 1 three ring binder
- 8 ½ x 11 notebook paper (plenty)
- ETUDES: If you are a first-time online student, please attend the orientation (see the top section of this syllabus). To log on to on-line class, go to <http://www.wlac.edu/online> or <http://www.myetudes.org> where you will find links to on-line tutorial, login instructions and technical requirements. Click on *course login*
  - Example: Juan Straub, 88-459-0210, birthday July 4
  - (User ID: first 2 letters of first name+ first 2 letters of last name+ last 5 number of student ID, password is birthday)
  - User ID: just90210
  - Password: 0704

- After logging in, double click the course you are enrolled in. If you are a first-time on-line student, make sure your Browser settings are as follows:
- Tools->Internet Option-general->security setting->add [www.wlac.edu/online](http://www.wlac.edu/online) and [www.myetudes.org](http://www.myetudes.org) as trusted site.
- If you do not know your Student Identification Number you can look it up using the Student Information System (SIS) at <http://www.laccd.edu>.

If you have trouble accessing the course on, or after, the start date, visit the Online Student Help Desk at <http://www.wlac.edu/online/helpdesk.asp> . Click on Helpdesk Rules where your issue is likely addressed in the Frequently Asked Questions section. If not, post a message explaining the problem or contact the WLAC Distance Learning Program Office at (310)287-4305 or via email: [shemwer@wlab.edu](mailto:shemwer@wlab.edu).

## Student Objectives:

Upon successful completion of this course, students will be able to . . .

1. Describe what is Logic
2. Explain the difference of Sets, Functions, Sequences, Sums and Matrices
3. Analyze Number Theory and use of Cryptography
4. Apply Recursion
5. Apply Counting
6. Explain Probability
7. Apply Recurrence Relations
8. Apply Graphing concept
9. Explain Tree theory

## Student Learning Outcomes

1. At end of the course, the successful student can outline the basic concept of Discrete Logic
2. At end of the course, the successful student can utilize Discrete Logic concept into different programming language
3. At end of the course, the successful student can develop program using the discrete logic.

## Institutional Learning Outcomes

**This course will also facilitate the following Institutional Learning Outcomes:**

1. Critical Thinking: Analyze all discrete logic concepts to deal with daily life such as bank applications, locations related, notification related and social media related, etc...
2. Communication: Effectively communicate thought in a clear, well-organized creation to persuade, inform, and convey ideas in academic, work and commercial usages on all discrete logic concepts

3. Self-awareness/Interpersonal Skills: Understand different Algorithms into building a strong background in programming design and architecture
4. Technical Competence: Utilize the appropriate technology such as Recursive into problem solving technique
5. Cultural Diversity: Respectfully engage Discrete Logic into all programming language platform.
6. Ethics: Practice and demonstrate standards of personal and professional integrity, honesty and fairness; apply ethical principles during this development path.

## Course Requirements and assignment guidelines

### Blog (Etudes) Responses

You are required to login to ETUDES weekly to read various posts related to the class. Blog Responses should be at least 3-4 complete sentences. Support your ideas. State your point and back them with facts or personal anecdotes. Stay on topic. Respond to each other's comments in a respectful manner. See other blog rules and guidelines on the class blog. Keep in mind comments will be read by me and others in class. Therefore, refrain from making any deeply personal, sensitive, revealing, private and inappropriate comments. **NOTE: If you don't have internet access at home, there are computer labs on campus. If accessing the class blog proves difficult, see me immediately. DO NOT WAIT until the day a response is due to seek help or explain your situation. Alternate plans can be arranged with notice.**

**Other assignments, as listed below, will occur in class and serve to reinforce learning:**

- Homework : Total of 12-15 Assignments, each assignment covers selected problems for one or more chapter in the textbook
- Exams: Two Midterms and Final. All exams will be held in the classroom.
- Minor Project: It requires you to join a team project to actually code some mathematical algorithms in a computer language such as C++ or Java
- You will need to submit your homework on Etudes and they can be a scanned or photo images of your work on the paper, typing in your homework into a word document is not necessary

### Late Assignments

Each student is allowed one late essay assignment. It must be turned in by the next class meeting to receive credit and the grade will be reduced by one letter grade. DO NOT e-mail me your essays and other typed assignments. They will not be accepted. Other late assignments will not be accepted.

## Grading

Assignment Category	# of Assign.	Points Per Assignment	Total Points	% of Total Grade
HomeWork	12-15	10	120-150	15
Midterm Exam 1	1	250	250	25
Midterm Exam 2	1	250	250	25
Minor Project	1	50	50	5
Final Exam	1	100	300	30
<b>Grand Total</b>		-	<b>800</b>	<b>100%</b>
90%-100% = A	75%-90% = B	60%-75% = C	45%-60% = D	Below 45% = F

## Class Policies

### Attendance

Students are expected to attend every class meeting, to arrive on time and stay throughout the class period. Students may be dropped from class for excessive tardiness, or for failure to attend class the first day or during the entire first week of the class.

### Walking In and Out of Class

When you arrive to class, make sure you have used the restroom, had a chance to eat, check your messages, etc. Walking in and out is rude and disruptive. If you need to leave early, or have some other problem, you need to notify me in advance. **Any student who makes a habit of walking in and out of class may be asked to leave.**

### Preparedness

You are expected to arrive on time. You will come to each class session prepared. You will have your books, binder, pens/pencils, any work that is due, and you will be prepared to discuss all readings/assignments.

## Cell Phones, iPods, etc.

Turn them off and put them away when class begins! Although it may not seem possible, you can survive without talking and texting on your cell phone, or listening to your iPod, for a little over an hour. Talking and texting on cell phones not only distract you, but they are a distraction for me and your peers. Distractions interrupt/disrupt the class and I will not tolerate interruptions. **You will be asked to leave if this occurs.**

## Contacting Me

E-mail is the best and quickest way to contact me. Thanks to modern technology, my e-mail is linked to my phone. Therefore, excuses such as, "I tried to contact you but (fill in the blank)" will not work. **If you have a problem, do not let it snowball. Contact me immediately.** Students are expected to ask questions and obtain help from instructor via email and/or during office hours.

Refer to the course website/blog for more information on UMOJA policies.

**For more information refer to the attached link:**

[http://www.wlac.edu/academics/pdf/WLAC\\_10-12Catalog\\_Policies.pdf](http://www.wlac.edu/academics/pdf/WLAC_10-12Catalog_Policies.pdf)

## College Policies:

### Academic Integrity (Plagiarism)

In accordance with code 9803.28, **academic dishonesty is prohibited and will not be tolerated in this class.** Violations of academic integrity include, but are not limited to, the following actions: cheating on an exam, plagiarism, working together on an assignment, paper or project when the instructor has specifically stated students should not do so, submitting the same term paper to more than one instructor, or allowing another individual to assume one's identity for the purpose of enhancing one's grade. Academic dishonesty of any type, such as cheating or knowingly furnishing false information, by a student provides grounds for disciplinary action by the instructor or college. In written work, no material may be copied from another without proper quotation marks, footnotes, or appropriate documentation.

- **Plagiarism will result in a zero for the assignment, possible dismissal from the class and disciplinary action from the college.** You will not receive credit for any essay missing previous drafts, citations and/or a Works Cited page.

### Student Conduct

According to code 9803.15, disruption of classes or college activities is prohibited and will not be tolerated. Refer to the catalog and the Standards of Student Conduct in the Schedule of Classes for more information.

## Recording Devices

State law in California prohibits the use of any electronic listening or recording device in a classroom without prior consent of the instructor and college administration. Any student who needs to use electronic aids must secure the consent of the instructor. If the instructor agrees to the request, a notice of consent must be forwarded to the Vice President of Academic Affairs for approval (WLAC College Catalog).

**For more information refer to the attached link:**

[http://www.wlac.edu/academics/pdf/WLAC\\_10-12Catalog\\_Policies.pdf](http://www.wlac.edu/academics/pdf/WLAC_10-12Catalog_Policies.pdf)

## Campus Resources:

**See example below:**

As stated earlier in this syllabus, **if you are having problems, don't let them snowball.** Come and talk with me and check out some of the campus resources available to you.

### Office of Disabled Student Programs and Services (DSP&S)

Heldman Learning Resources Center (HLRC), Room 119 | (310) 287-4450.

West Los Angeles College recognizes and welcomes its responsibility to provide an equal educational opportunity to all disabled individuals. The Office of Disabled Students Programs and Services (DSP&S) has been established to provide support services for all verified disabled students pursuing a college education. DSP&S students may qualify for: priority registration, registration assistance, special parking permits, sign language interpreters and assistive technology (WLAC College Catalog).

### Instructional Support (Tutoring) & Learning Skills Center

Heldman Learning Resources Center (HLRC) | (310) 287-4486

Improve your reading, language, vocabulary, spelling, math fundamentals and chemistry knowledge with convenient, self-paced computer-aided courses in the Learning Skills Center. Increase your knowledge and learning success: sign up for tutoring in various college subjects (WLAC College Catalog).

### Library Services

Heldman Learning Resources Center (HLRC) | (310) 287-4269 & (310) 287-4486

The WLAC Library provides instruction on how to use the online catalog, periodical and research databases. In addition to a large collection of books, periodicals and videos the WLAC Library has course textbooks which students may use while in the Library. Web access is available in LIRL as well as meeting rooms. The upper floors provide a beautiful view ideal for study (WLAC College Catalog).

**for more information refer to attached link:**



[http://www.wlac.edu/academics/pdf/WLAC\\_10-12Catalog\\_Services.pdf](http://www.wlac.edu/academics/pdf/WLAC_10-12Catalog_Services.pdf)

**Other Useful Information:**

Student LACCD email page link

<https://www.wlac.edu/Login.aspx>

**CE101 lab open hour**

CE101 lab open hour-check division web site [www.wlac.edu/csit](http://www.wlac.edu/csit).

**Degree and certificate**

Degree and certificate requirement-check division web site [www.wlac.edu](http://www.wlac.edu)

**Job placement assistance**

Job placement assistance for students in the advanced classes like CISCO Network, Security, Web & mobile development, Database and Computer Science -email H1B coordinator [VegaWM@wlab.edu](mailto:VegaWM@wlab.edu)

**CSIT 942 Class Schedule – Fall 2014  
on Saturday**

**9:00 a.m. – 11:55 a.m.**

**NOTE: This syllabus and class schedule is subject to change if circumstances warrant it  
(e.g. student performance, etc.). Expect revisions and divergences.**

Week Ending Date	Course Topics	Assignment, Midterm Exams, Final Exam
09/05/2015	Chapter 1	
09/12/2015	Chapter 1	Assignment 1
09/19/2015	Chapter 2	Assignment 2

09/26/2015	Chapter 2	Assignment 3
10/03/2015	Chapter 4	Assignment 4
10/10/2015	Chapter 4	Assignment 5
10/17/2015	Chapter 5 , <b>Midterm 1</b>	Assignment 6
10/24/2015	Chapter 5	Assignment 7
10/31/2015	Chapter 6	Assignment 8
11/07/2015	Chapter 6	Assignment 9
11/14/2015	Chapter 9	Assignment 10
11/21/2015	Chapter 10, <b>Midterm 2</b>	
11/28/2015	Closed	
12/05/2015	Chapter 11	Assignment 11
12/12/2015	Chapter 13	Assignment 12
12/19/2015	Final Exam	Final Exam

**Some faculty has used a “Student Acknowledgement” sheet such as the one below as a means to check students’ understanding of the material on the course syllabus. The sheet can be placed at the end of the syllabus and removed by students after they have signed the form. The sheet can also be given as a handout.**

**Another way to check understanding is to give a quiz on syllabus material at the beginning of the second class period**

### **Student Acknowledgment**

(Please return this sheet to the instructor)

“I \_\_\_\_\_, have completely read this syllabus and understand and agree to the course requirements.”

Please indicate below, any special needs or circumstances that may have some impact on your work in this class, and for which you may require special accommodations, including but not limited to physical or mental disabilities, inability to arrive in class on time or need to leave class early, observance of religious holidays, ect.

Special needs or circumstances:

