



# VE281 -- Data Structures and Algorithms

## Course Syllabus -- Fall 2019

### COURSE INFORMATION:

**Time:** 4:00 pm--5:40 pm, Monday (even week only), Wednesday & Friday

**Location:** F305 (东下院 305)

### September 2019

week	S	M	T	W	T	F	S
	1	2	3	4	5	6	7
(1)	8	9	10	11	12	13	14
(2)	15	16	17	18	19	20	21
(3)	22	23	24	25	26	27	28
(4)	29	30					

### October 2019

week	S	M	T	W	T	F	S
(4)			1	2	3	4	5
(5)	6	7	8	9	10	11	12
(6)	13	14	15	16	17	18	19
(7)	20	21	22	23	24	25	26
(8)	27	28	29	30	31		

### November 2019

week	S	M	T	W	T	F	S
(8)						1	2
(9)	3	4	5	6	7	8	9
(10)	10	11	12	13	14	15	16
(11)	17	18	19	20	21	22	23
(12)	24	25	26	27	28	29	30

### December 2019

week	S	M	T	W	T	F	S
(13)	1	2	3	4	5	6	7
(14)	8	9	10	11	12	13	14
(15)	15	16	17	18	19	20	21
	22	23	24	25	26	27	28
	29	30	31				

**Total: 14 weeks, 29 classes**

 Class Day

 Holiday

 Final Exam Week

### INSTRUCTOR INFORMATION:

**Name:** Xiaofeng Gao (高晓汾)

**Office:** Telecom Building 3-543

**Phone:** 021-34207407

**Email:** [gao-xf@cs.sjtu.edu.cn](mailto:gao-xf@cs.sjtu.edu.cn)

**Office Hour:** By appointment (Please mention your class ID and purpose in email beforehand)

**Teaching Assistant:** Qingmin Liu (刘庆民), Li Ma (马丽), Shuxiang Xie (谢舒翔)

### COURSE PREREQUISITES:

VE280 Programming and Elementary Data Structures, VE203 Discrete Mathematics



## TEXTBOOKS:

- *Data Structures and Algorithm Analysis*, by Clifford Shaffer. Online available: <http://people.cs.vt.edu/~shaffer/Book/C++3e20120605.pdf>
- *Data Structures and Algorithms with Object-Oriented Design Patterns in C++*, by Bruno Preiss.
- *Introduction to Algorithms, 3<sup>rd</sup> edition*, by Thomas Cormen, Charles Leiserson, Ronald Rivest, and Clifford Stein, MIT Press, 2009.

## EVENTS AND GRADING:

The final grade will be derived from your performance on the tests, and assignments. The class participation is shown as follows:

<u>Events:</u>		<u>Grading Policy:</u>	
Class attendance	5%	90-100%	<b>A</b>
Midterm Exam	20%	80-89%	<b>B</b>
Final Exam	25%	70-79%	<b>C</b>
Labs	50%	60-69%	<b>D</b>
<b>Total</b>	<b>100%</b>	59% and below	<b>F</b>

## WEBPAGE AND MATERIALS:

- All the class materials (slides, references), homework assignments, announcements, and other information can be seen from <http://cs.sjtu.edu.cn/~gao-xf/Teaching/>
- Please check the webpage often to get the up-to-date information.

## INSTRUCTOR/COURSE POLICIES

### Common Sense Notices

- Please attend every class and do not be late. **15-minute** late attendance is considered absent.
- Please turn off all cell phones, buzzers, and other noisy electronic devices during class time.
- Please show common courtesy to your fellow classmates and professor.

### Homework

- **English only.**
- **Electronic Submission only.**
- **Late assignments.** Each project will be given a due date. Your work must be turned in by 11:59 pm on the due date to be accepted for full credit. However, we still allow you to submit your homework within 3 days after the due date, but there is a late penalty. No work will be accepted if it is more than 3 days late!



Hours Late	Scaling Factor
(0, 24]	80 %
(24, 48]	60 %
(48, 72]	40 %

- **Academic dishonesty.** Your work must be your own. Cheating will result in a grade of 0 for the applicable assignment; further disciplinary action, including assigning a failing grade for the entire course and reporting your name to the department may also be taken. In all cases in which we have reason to believe that cheating has occurred, we will report your case to the Honor Council for evaluation.

### Computer Practical Report

- **English only.**
- **Electronic Submission only.**
- Include source code and other required materials (like data testing results, samples, etc.).

### Email Netiquette

- My response will be irregular on the weekend or when I am away from campus.
- When you email me you should consider the email as official correspondence. As such, the email should not appear as a text message but should have proper grammar and punctuation. The email title should include: **Class ID/Your Purpose**. An example is below.

(Email Title: [VE281] Want a material for midterm)

Dear Dr. Gao,

My name is John Smith. I'm from your class VE281- Data Structures and Algorithms. I will not attend tomorrow's class due to sickness. Can you send me a copy of the midterm review so I may use it as a study tool?  
Thanks a lot.

Sincerely Yours,

John Smith  
SID: XXXXXXXXXXXX  
UM-SJTU Joint Institute  
Shanghai Jiao Tong University  
Email: [JohnSmith@gmail.com](mailto:JohnSmith@gmail.com)

**TENTATIVE SCHEDULE:** (These dates could be changed depending upon the pace of the course)

Refer to <http://anl.sjtu.edu.cn/gao-xf/course/VE281-2019>