SAN ANTONIO CAMPUS - MATH AND SCIENCES
Syllabus for CSCI 1312 – Programming Principles II

1. Mission Statement: Wayland Baptist University exists to educate students in an academically challenging, learning-focused and distinctively Christian environment for professional success and service to God and humankind.

This is last year's F2F schedule, to give an idea what the 2018 summer online will be like.

2. Course: **CSCI 1312** – 01, Programming Principles II (in Java)

3. Term: Winter 2017

4. Instructor: Dr. Paul Parker, Asst. Professor of Computer Science

5. Office Phone and Email Address: 210.826.7595 Ext 291**, paul.parker@wbu.edu.** You may also contact me with **Remind text messages, which go directly to my iPhone.** You may call and text me at **210-460-0499**, via Google Voice; calls and texts will be forwarded from Google Voice from 9 am to 5:30 pm weekdays and 10 am to 4 pm on Saturdays, and otherwise will be silently dropped. **Again, the best ways to contact me are Remind for short messages and email for long ones, or calling me at 210-460-0499 during the day.**

You can join Remind by going to the following URL: **rmd.at/ge838f**

6. Office Hours and Location: **MW 4:00-5:45, Thu 2:15-5:45,** Callaghan Tower. Other hours available by appointment.

7. Class Meeting: Wednesday 6:00-9:00 in Callaghan Tower 303 (hybrid that meets certain weeks).

8. Catalog Description: Advanced programming. Topics include recursive functions, parameter passing, structures, records, memory allocation, exception handling, and abstract data types. Fulfills Math and Science degree need.

9. Prerequisites: CSCI 1311.

10. Required Textbook and Resources:

BOOK	AUTHOR	ED	YEAR	PUBLISHER	ISBN#	REVIEW
Building Java Programs with MyProgrammingLab Access Card	Reges and Stepp	4th	2017	Pearson	9780134448305	Fall 17

You need both the book **and** the MyProgrammingLab access card, because we will use MyProgrammingLab each week for additional programming practice. You do not need to buy the book and access card in a bundle, but if you buy a new book and access card separately they will be more expensive. While the access card comes with access to an e-text, it will not work on portable devices and I do not believe it will suffice. If you wish to risk lowering your grade to save $30-$40, that is your option.

You must have access to a computer on which you can install the Java development software, including both the JDK and DrJava. While we have computers in the classroom to use during class if you wish, that time will not suffice to complete the programming assignments and the MyProgrammingLab homework.

11. Optional Materials: Many students will wish to bring their laptop to class and do the in-class lab work on their machine. You may do this rather than using the lab computers if you prefer. The instructor can help you install the environment.

I **highly recommend** doing 2-3 exercises a week on PracticeIt!. It has longer problems than MyProgrammingLab and nice audio feedback. You can sign up free at http://practiceit.cs.washington.edu/ BONUS: Some of our lab assignments can be found as problems on there, so you can make sure your code works there before

submitting it to me. Note: Their tool will not check for proper formatting and style, and I usually have additional requirements for your programs, but it will still help you.

12. Course Outcome Competencies:
Upon completion of this course the student should be able to:

- Understand basics of classes and inheritance
- Design and implement simple classes
- Trace execution of longer programs
- Understand and use arrays
- Understand and apply recursion

13. Attendance Requirements: All students are expected to attend all class sessions and are responsible for knowing the material covered. Students who arrive after quizzes are completed cannot take the quiz later, since we will discuss the answers immediately. Any student missing more than 25% of the class will fail the class.

14. Course Requirements and Grading Criteria:
Exams - 20% each. Multiple-choice and write-in for mid-term and comprehensive final.
Weekly Quizzes - 10% of grade. Before class each week there will be an online quiz to measure student comprehension of material and encourage you to absorb your reading and weekly videos. The lowest 2 grades will be dropped; this is the provision for days students miss the quiz or whatever. There is no makeup for missed quizzes and reference materials are not allowed.
Labs - 40% of grade. Submit via Blackboard each week by Saturday night, per schedule. **10% reduction per day for late**, not accepted after Wednesday night, so you don't fall behind on the next week's material. For the labs and MyProgrammingLab, you may refer to your book and discuss difficulties with your classmates but may not use code from anyone nor from the Internet.
MyProgrammingLab - 10% of grade, due in online tool each Saturday per schedule. I may call this CodeLab.
Grading Criteria: A standard grading scale shall be used in the course: A = 90-100%, B=80-89%, C=70-79%, D=60-69%, F= <60. There is no guarantee of any rounding.

15. Tentative Schedule:

COURSE OUTLINE/CALENDAR

Week	Material	Opens	Quick Quiz	Class	CodeLab	Lab	CodeLab & Lab Due
1	Setup MPL, DrJava. Ch 6: Files (thru 6.2)	11/11					
Thanksgiving							
2	Ch 6: Files	11/25	11/28	11/29	6	1	12/02
3	Ch7: Arrays (thru 7.2)	12/2	12/5		7 I	2	12/09
4	Ch7: Arrays	12/9	12/12	12/13	7 II	3	12/16
Christmas							
5	*Midterm / Midterm Discussion*			1/3			
6	Ch 8: Classes (thru 8.2)	1/6	1/9		8 I	4	01/13
7	Ch 8: Classes	1/13	1/16	1/17	8 II	5	01/20
8	Ch 9: Inheritance and Interfaces	1/20	1/23	1/24	9	6	01/27
9	Ch12: Recursion (thru 12.2)	1/27	1/30	1/31?	12 I	7	02/03

10	Ch12: Recursion	2/3	2/6	2/7	12 II	8	02/10
11	*Final*			2/14			

16. Additional important information:

Most communication will occur via Remind. However, directives concerning class may be sent to your Wayland email account. It is imperative that you monitor that throughout the semester. I recommend forwarding it to your primary email account.

There are several things you need to do each week. You should do them in this order:
1. Make sure you have completed everything from the prior week, because the material is fundamentally cumulative.
2. Do the assigned reading for this week and watch the VideoNotes and videos I have posted for the week.
3. Do the MyProgrammingLab for this week (example: MPL 6 the second week of class). If you find one you can't figure out, you can ask about it during class. If you wish, you can do the MyProgrammingLab for each section of the book after reading that book section.
4. Start the lab for this week. Get as far as you can on it, so that when we have lab time in class on Tuesday you will be able to ask me about any hard part you run into.

Each week builds on the prior week, so you need to make sure you've finished the prior week. MyProgrammingLab requires you to read the chapter first. The lab for the week will be easier if you do the MyProgrammingLab first. Perhaps most importantly, all three of these will help you do well on the quiz.

Other information:

Disability Statement**:** In compliance with the Americans with Disabilities Act of 1990 (ADA), it is the policy of Wayland Baptist University that no otherwise qualified person with a disability be excluded from participation in, be denied the benefits of, or be subject to discrimination under any educational program or activity in the university. The Coordinator of Counseling Services serves as the coordinator of students with a disability and should be contacted concerning accommodation requests at (806) 291- 3765. Documentation of a disability must accompany any request for accommodations.

Students who are taking this course to fulfill the math/sciences/language requirements for the BAS degree should be aware that this class is designed as an introduction to the field for majors; it is **not** designed to serve as a course to fulfill core requirements. You should expect that this course will be challenging and a considerable amount of work. If you are interested in this area, you will find the process of learning how to program computers will be valuable and even rewarding.

Students shall have protection through orderly procedures against prejudices or capricious academic evaluation. A student who believes that he or she has not been held to realistic academic standards, just evaluation procedures, or appropriate grading, may appeal the final grade given in the course by using the student grade appeal process described in the Academic Catalog. Appeals may not be made for advanced placement examinations or course bypass examinations. Appeals are limited to the final course grade, which may be upheld, raised, or lowered at any stage of the appeal process. Any recommendation to lower a course grade must be submitted through the Executive Vice President/Provost to the Faculty Assembly Grade Appeals Committee for review and approval. The Faculty Assembly Grade Appeals Committee may instruct that the course grade be upheld, raised, or lowered to a more proper evaluation.