



V. **STUDENT REQUIREMENTS:**

- Students are required to attend all classes, and any scheduled plant visitations.
- The Minimum attendance is 106 class hours, any less will result in an incomplete and no certificate will be issued.
- The student is responsible for knowing all materials covered during any absence.
- The student is required to complete all assigned reading and writing assignments.
- During this course, there will be four quizzes, one pre-final, and one final exam.
- Exams will be given at assigned class start times.
- The time limit for chapter quizzes will vary.
- The time limit for the final exam is 3 hours.
- Each student must have a functioning computer equipped with a working Video camera and microphone and or headset.

VII. **GRADING POLICY:**

- Each student's final course average will be weighted as follows: Quizzes 10 %; Final Exam 90%
- **A minimum grade of 70 on the final is required to pass the class and receive a certificate of completion.**
- Scoring Range:  
A: 90 – 100      B: 80 – 89      C: 70 -79      D: 60 – 69      F: Below 60

VIII. **REQUIRED COURSE MATERIALS:**

**“Operation of Wastewater Treatment Plants, Vol 1, 8th Edition, 2019.** Office of Water Programs, College of Engineering and Computer Science, California State University, Sacramento

**“Operation of Wastewater Treatment Plants (A Field Study Training Program)”**; Volume 2, Seventh Edition. Office of Water Programs, College of Engineering and Computer Science, California State University, Sacramento

VIV. **ADDITIONAL RESOURCES:**

**“Operation and Maintenance of Wastewater Collection Systems (A Field Study Training Program)”**; Volume 1, Office of Water Programs, College of Engineering and Computer Science, California State University, Sacramento

**“Operation and Maintenance of Wastewater Collection Systems (A Field Study Training Program)”**; Volume 2, Office of Water Programs, College of Engineering and Computer Science, California State University, Sacramento

The Florida Department of Environmental Protection Web site for Rules and Regulation

[Florida DEP Water Resource Management Rules by Program](http://www.dep.state.fl.us/water/rulesprog.htm#ww) <http://www.dep.state.fl.us/water/rulesprog.htm#ww>

X. **COURSE SCHEDULE:**

<b>Class Day</b>	<b>Topic</b>	<b>Required Reading</b>
Day 1	Introduction to wastewater	Chapter 1 Vol. 1
Day 2	Safety	Chapter 2 Vol. 1 / Chapter 14 Vol. 2
Day 3	Safety	Chapter 2 Vol. 1 / Chapter 14 Vol. 2
Day 4	Preliminary Treatment	Chapter 3 Vol. 1
Day 5	Preliminary Treatment	Chapter 3 Vol.1

Day 6	Primary Treatment	Chapter 4 Vol. 1
Day 7	Primary Treatment	Chapter 4 Vol. 1
Day 8	Activated Sludge Treatment/ Secondary Treatment	Chapter 5 Vol. 1
Day 9	Activated Sludge Treatment/ Secondary Treatment	Chapter 5 Vol. 1
Day 10	Quiz Trickling Filters / RBC / Attached Growth	Chapters 1-5 Vol. 1/ Chapter 14 Vol. 2 Chapter 6 Vol. 1
Day 11	Trickling Filters / RBC / Attached Growth	Chapter 6 Vol. 1
Day 12	Trickling Filters / RBC / Attached Growth	Chapter 6 Vol. 1
Day 13	Disinfection Process	Chapter 7 Vol. 1
Day 14	Disinfection Process	Chapter 7 Vol. 1
Day 15	Ponds and Lagoons	Chapter 8 Vol. 1
Day 16	Ponds and Lagoons	Chapter 8 Vol. 1
Day 17	Laboratory Procedures and Chemistry	Chapter 9 Vol. 1/ Chapter 16 Vol. 2
Day 18	Laboratory Procedures and Chemistry	Chapter 9 Vol. 1 / Chapter 16 Vol. 2
Day 19	Wastewater Math / Appendix A	Appendix A Vol. 1
Day 20	Wastewater Math / Appendix A	Appendix A Vol.1
Day 21	Quiz  Activated Sludge Plants	Chapters 6-9, Appendix A Vol. 1 / Chapter 16 Vol. 2 Chapter 11 Vol. 2
Day 22	Activated Sludge Plants	Chapter 11 Vol. 2
Day 23	Activated Sludge Plants	Chapter 11 Vol. 2
Day 24	Sludge Digestion and Solids Handling	Chapter 12 Vol. 2
Day 25	Sludge Digestion and Solids Handling	Chapter 12 Vol. 2
Day 26	Effluent Discharge, Reclaimed and Reuse	Chapter 13 Vol. 2
Day 27	Effluent Discharge, Reclaimed and Reuse	Chapter 13 Vol. 2
Day 28	Equipment Maintenance	Chapter 15 Vol. 2
Day 29	Equipment Maintenance	Chapter 15 Vol. 2
Day 30	Quiz FDEP Rules and Regulations	Chapters 11-13, and 15 Vol. 2 Handout
Day 31	FDEP Rules and Regulations	Handout
Day 32	Instrumentation and Control/ Computers	Chapter 17 Vol.2
Day 33	Instrumentation and Control / Computers Data Analysis	Chapter 17 Vol. 2 Chapter 18 Vol. 2
Day 34	Data Analysis Record Keeping	Chapter 18 Vol. 2 Chapter 19 Vol. 2
Day 35	Record Keeping	Chapter 19 Vol. 2
Day 36	Quiz Course Review	Chapters 17-19 Vol. 2 All covered materials
Day 37	Pre-final tune up test Course Review	All covered materials All covered materials

Day 38	Course Review	All covered materials
Day 39	Final Exam	All covered materials