Course Outline

COURSE: WTRM 120  DIVISION: 50  ALSO LISTED AS: 

TERM EFFECTIVE: Spring 2018  Inactive Course

SHORT TITLE: POLLUTION PREVENTION/STORM WTR

LONG TITLE: Pollution Prevention and Storm Water Management

<table>
<thead>
<tr>
<th>Units</th>
<th>Number of Weeks</th>
<th>Contact Hours/Week</th>
<th>Total Contact Hours</th>
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</thead>
<tbody>
<tr>
<td>3</td>
<td>18</td>
<td>Lecture: 3</td>
<td>Lecture: 54</td>
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<tr>
<td></td>
<td></td>
<td>Lab: 0</td>
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<td></td>
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<td>Other: 0</td>
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<td>Total: 3</td>
<td>Total: 54</td>
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COURSE DESCRIPTION:

Pollution Prevention and Storm Water Management reviews methods and regulations to prevent pollutants from reaching the waters of our rivers, streams and aquifers. It reviews methods of reducing pollutants in industrial wastewater, water reuse and water recycling. Additionally, it reviews the methods and regulations for storing hazardous wastes and materials. Lastly, it reviews the general stormwater permits for municipalities, industry and construction. At the end of this course, the student will have a fundamental knowledge of how to reduce pollution in our wastewater through effective water and process management, as well as appropriate hazardous materials and waste storage. This course also covers the implementation of methods required by the State's general permits to prevent pollution from entering stormwater runoff. This course is now listed as WTRM 220. ADVISORY: WTRM 101: Introduction to Water/Wastewater Technology; WTRM 107: Beginning Wastewater Treatment Plant Operation.

PREREQUISITES:

COREQUISITES:

CREDIT STATUS: D - Credit - Degree Applicable

GRADING MODES
L - Standard Letter Grade

REPEATABILITY: N - Course may not be repeated

SCHEDULE TYPES:
02 - Lecture and/or discussion

STUDENT LEARNING OUTCOMES:

1/25/2018  1
   Measure: Quizzes, Exams, Homework Assignments
   PLO:
   ILO: 7,3,2,6

2. Explain the requirements of Title 22, Article 10 - 14.
   Measure: Quizzes, Exams, Homework Assignments
   PLO:
   ILO: 7,3,2,6

3. Outline the requirements of 40 CFR Part 112 Spill Prevention, Containment and Counter Measure.
   Measure: Quizzes, Exams, Homework Assignments
   PLO:
   ILO: 7,3,2,6

4. Describe the major elements of erosion and sediment control.
   Measure: Quizzes, Exams, Homework Assignments
   PLO:
   ILO: 7,3,2,6

5. Explain the required elements of a General Municipal Storm Water Permit.
   Measure: Quizzes, Exams, Homework Assignments
   PLO:
   ILO: 7,3,2,6

6. Outline the required elements for a General Industrial Storm Water Permit.
   Measure: Quizzes, Exams, Homework Assignments
   PLO:
   ILO: 7,3,2,6

7. Describe the key requirements associated with a General Construction Storm Water Permit.
   Measure: Quizzes, Exams, Homework Assignments
   PLO:
   ILO: 7,3,2,6

CONTENT, STUDENT PERFORMANCE OBJECTIVES, OUT-OF-CLASS ASSIGNMENTS
Inactive Course: 03/13/2017
9 Hours
Out-of-Class Assignments: Reading, problems
9 Hours
1/25/2018 2
Content: Title 22, Hazardous Waste Storage.  
Student Performance Objectives (SPO): Explain the requirements of Title 22, Hazardous Waste Storage. 
Out-of-Class Assignments: Reading, group homework

9 Hours  
Content: SPCC and Petroleum Storage. 
Student Performance Objectives (SPO): Explain the requirements of SPCC and Petroleum Storage. 
Out-of-Class Assignments: Reading, group homework

6 Hours  
Content: Erosion and Sediment Control 
Student Performance Objectives (SPO): Outline the primary elements of Erosion and Sediment Control 
Out-of-Class Assignments: Reading, group homework

3 Hours  
Content: Gereral Municipal Stormwater Permit 
Student Performance Objectives (SPO): Explain the requirements of a Gereral Municipal Stormwater Permit 
Out-of-Class Assignments: Reading, group homework

6 Hours  
Content: General Industrial Stormwater Permit 
Student Performance Objectives (SPO): Explain the requirements of a General Industrial Stormwater Permit 
Out-of-Class Assignments: Reading, group homework

10 Hours  
Content: General Construction Stormwater Permit 
Student Performance Objectives (SPO): Explain the requirements of a General Construction Stormwater Permit 
Out-of-Class Assignments: Reading, group homework

2 Hours

METHODS OF INSTRUCTION: 
Lecture, Homework, Quizzes, Group Project

METHODS OF EVALUATION:  
CATEGORY 1 - The types of writing assignments required:  
Percent range of total grade: 10 % to 20 %  
Written Homework  
Reading Reports  
CATEGORY 2 - The problem-solving assignments required:  
Percent range of total grade: 30 % to 40 %  
Homework Problems  
Quizzes  
Exams  
CATEGORY 3 - The types of skill demonstrations required:  
Percent range of total grade: 20 % to 30 %
Class Performance/s
Field Work
Performance Exams

CATEGORY 4 - The types of objective examinations used in the course:
Percent range of total grade: 20 % to 40 %
Multiple Choice
Completion
Other: Storm Water Pollution Prevention Plan

CATEGORY 5 - Any other methods of evaluation: group projects
Percent range of total grade: 10 % to 15 %

REPRESENTATIVE TEXTBOOKS:
Required:
Government Codes posted online:
Most current government codes online, as listed.
or other appropriate college level text.
Reading level of text, Grade: 11 Verified by: Dana Young

ARTICULATION and CERTIFICATE INFORMATION
Associate Degree:
CSU GE:
IGETC:
CSU TRANSFER:
Transferable CSU, effective 201270
UC TRANSFER:
Not Transferable

SUPPLEMENTAL DATA:
Basic Skills: N
Classification: Y
Noncredit Category: Y
Cooperative Education:
Program Status: 1 Program Applicable
Special Class Status: N
CAN:
CAN Sequence:
CSU Crosswalk Course Department: WTRM
CSU Crosswalk Course Number: 120
Prior to College Level: Y

1/25/2018
Non Credit Enhanced Funding: N
Funding Agency Code: Y
In-Service: N
Occupational Course: C
Maximum Hours: 3
Minimum Hours: 3
Course Control Number: CCC000530897
Sports/Physical Education Course: N
Taxonomy of Program: 095800