

**Marshall University
Syllabus**

Course Title/Number	IST 321 Resolution of Environmental Problems CRN 3729 Section 201
Semester/Year	Spring 2015
Days/Time	1230 – 145 pm Tuesdays and Thursdays
Location	Science 200
Instructor	Samuel T. Colvin
Office	Morrow 111
Phone	304 696 5432
E-Mail	colvin8@marshall.edu
Office Hours	930 – 11 am Tuesdays & Thursdays. By prior appointment only, 315 – 5 pm Tuesdays & Thursdays
University Policies	By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy by going to www.marshall.edu/academic-affairs and clicking on "Marshall University Policies." Or, you can access the policies directly by going to www.marshall.edu/academic-affairs/policies/ . Academic Dishonesty/Excused Absence Policy for Undergraduates/Computing Services Acceptable Use/Inclement Weather/Dead Week/Students with Disabilities/Academic Forgiveness/Academic Probation and Suspension/Academic Rights and Responsibilities of Students/Affirmative Action/Sexual Harassment

Course Description: From Catalog

Students examine case studies of current environmental problems and propose methods of remediation. Cultural, political, economic, as well as ecological and physiographic factors are

considered.

Department and course student learning outcomes	How students will practice each outcome in this course	How student achievement of each outcome will be assessed in this course
1. Students will demonstrate proficiency in the utilization of contemporary technologies or tools to solve real-world problems.	activities, instructor modeling	individual study, presentation, exams, service learning project, assignments, worksheets
2. In the development of a research project, students will scientifically analyze data, evaluate and incorporate relevant research, and describe potential implications.	activities, instructor modeling	individual study, presentation, exams, service learning project, assignments, worksheets
3. Students will effectively communicate in relating findings and recommendations resulting from projects.	activities, instructor modeling	individual study, presentation, exams, service learning project, assignments, worksheets
4. Students will be able to formulate questions and hypotheses related to environmental issues, locate and employ appropriate evidence, design and conduct experiments, collect data, evaluate the evidence and data, and articulate conclusions that follow logically from analysis.	activities, instructor modeling	individual study, presentation, exams, service learning project, assignments, worksheets
5. Students will determine the origins of core beliefs and ethical principles, evaluate the ethical basis of professional rules and standards of conducts, evaluate how academic theories and public	activities, instructor modeling	individual study, presentation, exams, service learning project, assignments, worksheets

policy inform one another to support civic well-being, and analyze complex ethical problems to address competing interests.

No required texts. Online resources will be used.

Course Requirements/Due Dates

Attendance 100 points (minus 3 points for each unexcused absence)

Exam One 50 points on 3/12

Individual Study (250 points total) including:

Selection and outline of a study of a local or regional environmental problem using scientific references 50 points due to MU Online by 11:59 p.m. 2/26

Completion of the study outlined and submission of a written report 100 points due to MU Online by 11:59 p.m. 4/16

Submission of a Power Point or similar presentation due to MU Online by 11:59 p.m. 4/23 and an oral presentation in class on 4/21 or 4/23 100 points

Service Learning Project (500 points total) including:

Service Learning Reading One and Response Paper One 50 points due to MU Online by 11:59 p.m. 1/29

Service Learning Response Paper Two 50 points due to MU Online by 11:59 p.m. 4/2

GEAR Submission 25 points due by 4/30 at 11:59 p.m.

Assignments 200 points throughout the semester

Worksheets 175 points throughout the semester

Cutoff for submission of all work to this point due to MU Online by 11:59 p.m. 4/30

Exam Two 50 points on 5/5/15 from 1245 - 245 p.m.

Grading Policy

A total of 1000 points is possible.

Rubric for Grading – Department and Course Learning Outcomes 1A - Demonstrate technological fluency. 1B - Develop two reliable strategies. 2A - Evaluate evidence. 2B - Analyze research literature. 2C - Identify limitations/implications. 3A - Submit well-structured product. 3B - Use proper language/mechanics/delivery. 3C - Use respected supporting material. 4 - Resolve environmental problems scientifically. 5 - Demonstrate professional and ethical behavior and concern for civic well-being.

Percentages and Points

Grades: A 90-100% 900 to 1000 points B 80-89% 800 to 899 points

C 70-79% 700 to 799 points D 60-69% 600 to 699 points F < 60% 0 to 599 points

Attendance Policy

Students who consistently (2 or more times) come to class late may be subject to a reduction in points not to exceed a one letter grade reduction at the discretion of the instructor.

Attendance is recorded.

Absences will be excused only with written excuses in accordance with University attendance policy. Students are responsible to make up any work missed because of an excused absence at the next attended class after that absence. No credit will be recorded (1) unless the missed work is made up at the next attended class after the absence and (2) until the University approved excuse is received by the instructor. Only the instructor can amend this policy at his discretion in cases of extreme hardship, but is always willing to listen.

Course Schedule

Important Dates Spring 2015

1/12 Classes begin

1/16 Schedule adjustments end

1/19 Holiday - Martin Luther King, Jr.

3/9 Fr/Soph mid term grades

3/16 - 21 Spring Break

3/27 Last day to drop individual course

4/27 - 5/1 Dead Week
5/2 - 8 Exams
5/9 Commencement

Week 1 - 1/13 syllabus, get acquainted	1/15 explanation of assignments, environmental laws
Week 2 - 1/20 environmental problem solving	1/22 environmental problem solving
Week 3 - 1/27 service learning project	1/29 service learning project
Week 4 - 2/3 service learning project	2/5 service learning project
Week 5 - 2/10 service learning project	2/12 service learning project
Week 6 - 2/17 service learning project	2/19 service learning project
Week 7 - 2/24 service learning project	2/26 service learning project
Week 8 - 3/3 service learning project	3/5 service learning project
Week 9 - 3/10 service learning evaluation	3/12 Exam One
Week 10 - 3/24 service learning project	3/26 service learning project
Week 11 - 3/31 service learning project	4/2 service learning project
Week 12 - 4/7 service learning project	4/9 service learning project
Week 13 - 4/14 service learning project	4/16 service learning project
Week 14 - 4/21 Student presentations	4/23 Student presentations continued
Week 15 - 4/28 service learning evaluation	4/30 class conclusion

Cutoff for submission of all work to this point due to MU Online by 11:59 p.m. 4/30

Exam Two 5/5/15 1245 - 245 p.m.

Other Policies

Plagiarism or cheating will result in no credit for that activity and may result in further University sanctions.

Work not in the prescribed format will be penalized, or at the discretion of the instructor not accepted for grading. MU Online will be the only acceptable vehicle for submission of work unless the instructor announces a different vehicle. Submission to MU Online is required so that submissions become part of the permanent record of the class. Late submissions to MU Online will be accepted with penalty until the cutoff. After the cutoff, MU Online will not allow submissions. Please do not e-mail submissions to me.

Submissions will not be returned. Please keep copies of all work submitted.

No work received after the class ends will be graded.

Grades will be reported in MU Online allowing students to determine their grade status anytime, especially prior to course withdrawal deadlines and prior to the final. Assignments will be marked, graded and comments returned through MU Online within two weeks after the due date. It is the student's responsibility to check grades and comments (if any) to assure the proper receipt of and credit for assignments and labs. Final grades are based on the number of points earned out of 1,000. Only point calculations prepared by the instructor are official.

There is no extra credit or re-testing. Scaling may be used at the discretion of the instructor in grading the submissions. At the end of the course, the instructor may, in his discretion, consider awarding extra points to a student less than five points (actual, not percentage) away from the next grade level provided that student has completed all assignments in a timely fashion.

Questions from students about the class may be sent by e-mail to colvin8@marshall.edu.

Due dates and assignments are subject to change. Due dates will only be moved back, not forward.

Below is the current University policy related to incompletes for courses. It will be strictly followed.

"Incomplete: The grade of I (incomplete) indicates that the student has completed three-quarters of the course, but cannot complete the course for a reason that accords with the university excused-absence policy. Students must be in good standing in the class prior to requesting an incomplete. The course instructor decides whether or not an incomplete will be granted and specifies in writing what work the student must complete to fulfill the course requirements. The student has until the end of the next fall or spring semester from the date of receipt of the incomplete grade in which to complete the course, or the instructor may establish an earlier deadline. If special circumstances exist, which prevent the student from completing the course in the prescribed time, the incomplete may be extended with approval of the instructor, the instructor's chair or division head, and the instructor's dean. If the student satisfactorily completes the course in the prescribed time he/she will receive a letter grade. If the student fails to complete the course requirements during the stipulated time, the grade of I changes to a grade of F."

- The Greenbook, Marshall University

colvin8@marshall.edu is the only e-mail address to which I respond. Please do not send e-mails to any other address or through forums.

Because of the phone system, I can only return local phone calls and often cannot return some cell phone calls. I normally check and return phone calls and e-mails only when on campus, but I do respond if at all possible.

I strive to respond to phone calls and e-mails within 24 hours of receipt and will respond if at all possible.

Instructor Schedule – Spring 2015

Tuesdays and Thursdays

8 – 915 IST 220 Science 200

930 – 11 Office Morrow 111

11 – 1215 IST 120 Morrow Commons

1230 – 145 IST 321 Science 200

2 – 315 IST 212 Science 200

315 - 5 By prior appointment only, in office

IST 320 Online only

Faculty meeting noon – 1 every other Friday starting 1/16 and ending 5/8

INSTRUCTOR BIOGRAPHICAL SKETCH

Sam Colvin received a bachelor's degree and a master's degree from WVU. He has taken postgraduate courses at Marshall.

Sam has worked on environmental issues since the first Earth Day in 1970. He was appointed as the first WV Youth Adviser to the newly-formed U.S. Environmental Protection Agency. As a student, he worked on a federally funded environmental education grant developing and testing course materials from elementary school to college level. He served a six month internship with the WVU Extension Environmental Education Specialist.

Sam has been employed at the city, county and state levels in West Virginia. He was an Extension Agent for two years, administrative assistant for admissions to the MU School of Medicine for six months, and the Community Development Director of Huntington for three years. He served as Executive Director of the WV Resource Recovery-Solid Waste Disposal Authority for eleven years. He was a market development representative for a major environmental company for one year. He has operated an environmental consulting business since 1990.

Sam has been a member of the WV Solid Waste Management Board and the WV Water Quality Advisory Committee. He served two years as Executive Director of the Ohio River Basin Consortium for Research and Education.

Sam's major environmental emphasis is solid waste, including recycling and composting. He is a certified yard waste facility operator and has received the National Backyard Compost training and the Compost Facility Best Management Practices training.

Sam has taught at Marshall since the spring of 2000. He has taught First Year Seminar 100, Integrated Science (ISC) 211 Living on Earth, Integrated Science and Technology (IST) 111 Living Systems, IST 120 Connections I, IST 220 Connections II, IST 212 Energy, IST 320 Nature of Environmental Problems, and IST 321 Resolution of Environmental Problems. He has been involved in two Campus Compact service learning grants. He has completed Quality Matters for online teaching, critical thinking and service learning training.

Sam has completed Sustainability Awareness, Pollution Prevention and Environmental Management System training sponsored by WV Department of Environmental Protection, the National Pollution Prevention Roundtable and Bridgmont Community & Technical College.

His current research and service projects include: (1) Monitor and modify as needed the IST 320 online course; (2) Continue work on improvement of the impaired Fourpole Creek; (3) Continue evaluation of state-mandated waste reduction goal of 50%; (4) Monitor the reclamation of the former City of Huntington landfill; (5) Study the WV solid waste management system.

Sam lives in rural Wayne County, WV with his wife, Prudence. Prudence graduated from Marshall with bachelor's and master's degrees and is now retired after 34 years as an educator – 27 as an elementary teacher and 7 as a reading coach. They are active as volunteers in church and community activities. Sam is a volunteer assistant high school baseball coach.

They have two sons.

Andrew is a May, 2013 environmental engineering graduate of the United States Military Academy at West Point and an August, 2014 honor graduate of the Naval Dive School. He is currently a first lieutenant in the Army serving as an engineer dive officer.

Samuel graduated in May, 2014 with honors from the University of Charleston and was selected as Senior of the Year. He served as battalion commander of the Army ROTC combined programs for WV State, Glenville State, WVU Tech and the University of Charleston and was named Cadet of the Year. He is currently a second lieutenant in the Army serving as a military intelligence officer.