

# Cover Sheet: Request 13127

## ENV 4112C Air Sampling and Analysis

### Info

Process	Course New Ugrad/Pro
Status	Pending at PV - University Curriculum Committee (UCC)
Submitter	Barbi Jackson barbib@ufl.edu
Created	10/2/2018 10:29:31 AM
Updated	1/29/2019 2:07:32 PM
Description of request	Reinstate course to offer as technical elective for Spring 2019

### Actions

Step	Status	Group	User	Comment	Updated
Department	Approved	ENG - Environmental Engineering Sciences 011910000	Chang-Yu Wu		11/15/2018
No document changes					
College	Conditionally Approved	ENG - College of Engineering	Heidi Dublin	Conditionally approved pending comment made at last curriculum committee meeting. (Lab as a team/report individually)	1/4/2019
No document changes					
Department	Approved	ENG - Environmental Engineering Sciences 011910000	Chang-Yu Wu	The syllabus has been revised that removed wording about lab as a team and ensured the university policy is followed.	1/7/2019
syllabus_ENV4932 (ENV4112C)_2019_spring_College standard_Jan022019.docx					
College	Approved	ENG - College of Engineering	Heidi Dublin	Approved by the HWCOE Curriculum Committee and Faculty Council	1/29/2019
No document changes					
University Curriculum Committee	Pending	PV - University Curriculum Committee (UCC)			1/29/2019
No document changes					
Statewide Course Numbering System					
No document changes					
Office of the Registrar					
No document changes					
Student Academic Support System					
No document changes					
Catalog					
No document changes					
College Notified					

<b>Step</b>	<b>Status</b>	<b>Group</b>	<b>User</b>	<b>Comment</b>	<b>Updated</b>
No document changes					

## Course|New for request 13127

### Info

**Request:** ENV 4112C Air Sampling and Analysis

**Description of request:** Reinstate course to offer as technical elective for Spring 2019

**Submitter:** Barbi Jackson barbib@ufl.edu

**Created:** 4/12/2017 2:27:28 PM

**Form version:** 1

### Responses

**Recommended Prefix** ENV

**Course Level** 4

**Number** 112

**Category of Instruction** Advanced

**Lab Code** C

**Course Title** Air Sampling and Analysis

**Transcript Title** Air Sampling & Analys

**Degree Type** Baccalaureate

**Delivery Method(s)** On-Campus

**Co-Listing** No

**Co-Listing Explanation** n/a

**Effective Term** Earliest Available

**Effective Year** Earliest Available

**Rotating Topic?** No

**Repeatable Credit?** No

**Amount of Credit** 3

**S/U Only?** No

**Contact Type** Regularly Scheduled

**Weekly Contact Hours** 3

**Course Description** The class will apply the physical and chemical principles to measurement of gaseous and particulate pollutants in ambient air.

**Prerequisites** ENV4101 Elements of Atmos Pollution

**Co-requisites** n/a

**Rationale and Placement in Curriculum** Reinstating course to offer as technical elective for Spring 2019

**Course Objectives** Through this course, the student will be able:

- 1) To describe the principles of gaseous and particulate monitoring systems
- 2) To measure the major air pollutants such as NO<sub>x</sub>, SO<sub>2</sub>, ozone, hydrocarbons, and particulate matter
- 3) To connect the measured data to the real world problems.
- 4) To interpret the data based on environmental conditions under QA/QC protocols
- 5) To design the monitoring and sampling systems for measuring air pollutants

**Course Textbook(s) and/or Other Assigned Reading** No textbook

**Weekly Schedule of Topics**

Wk	Date	Topics	comments	Comments
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1	Jan. 8	NO <sub>x</sub> calibration, ozone calibration, SO <sub>2</sub> calibration		
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2	Jan. 15	Chamber data: NO <sub>x</sub> calibration, ozone calibration, SO <sub>2</sub> calibration		
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		Gas Data and Data process	Report	
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3	Jan. 22	Hydrocarbons: GC/FID (calibration)	Gas Data	
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4	Jan. 29	Application to mixed gases	Gas Data process	Report
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5	Feb. 5	Aerosol generation:		
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Calculation of particle loss to reactor walls using SMPS and OPC data

Measurement of gas dilution by CCl<sub>4</sub> data      Aerosol and gas data (outdoor) Report

6	Feb. 12	Aerosol generation: PILS-IC and CCl <sub>4</sub> dilution	Aerosol data	
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8	Feb. 19	Application of PILS IC data to inorganic thermodynamic model to estimate aerosol		
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	acidity and aerosol water content	Interpretation of inorganic data	Report
7	Feb. 26 Exam I		
	Mar. 5 & 7	Spring Break	
8	Mar. 12	Denuder systems applied to ambient air: acid denuder, base denuder, and carbon denuder	
		Calibration of OC/EC	
		OC/EC of ambient aerosol with/without denuders	Various denuders OC/EC data
		Report	
9	Mar. 19	Ambient data: OC/EC, SMPS, OPC, PILS-IC (major compositions: inorganics and organics (secondary and primary))	Ambient Data
		Data collection for your project	Report
10	Mar. 26	SOA formation (indoor pollutions): apply to OC/EC, SMPS, OPC, hydrocarbons	
		Chamber Data	
		Data collection for your project	Data
11	Apr. 2	SOA chamber experiment (mixture): apply to OC/EC, SMPS, OPC, hydrocarbons, and PILS-IC	Chamber Data
		Data collection for your project	Report
		Data	
12	Apr. 9	SOA formation: impactor-FTIR	Aerosol Data Report
13	Apr. 16	Exam II	
14	Apr. 24	Project presentation	

**Links and Policies** 16. Requirements for class: attendance, report, 2 exams, and project

a. Attendance Policy, Class Expectations, and Make-Up Policy

This class is primarily laboratory-based and therefore attendance is expected. Your attendance in the class will count towards your grade. Absences will be excused consistent with university policies in the Graduate Catalog (<https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>) and require appropriate documentation. Assignments will be accepted late only in accordance with university policies.

b. Lab activities and Report Policy

Throughout the semester, the student will write about how the data are collected and processed based on the QA/QC and environmental regulations. Students will also interpret the relevant atmospheric process of air pollutants.

- The lab activities will be performed as a team.
- A lab report will be submitted individually. The report is due at noon on Friday in the same week when the report is assigned. The lab report includes the objective, method, data, the process of data, QA/QC, interpretation of data, and application to atmospheric process of pollutants and environmental policy.

c. Midterm Exam Policy

There is no final. You have only two midterms. Each midterm exam is 1 hour 55 minutes and only covers the materials instructed prior to that exam. You need a calculator for exams and sharing calculator is not allowed. A make-up for the midterm will not be allowed except the case only with certified medical excuse (only one make-up exam).

Prohibited devices during exam include, but are not limited to:

- Cell phones or smartphones
- Audio players/recorders, tablets, laptops, notebooks, Google Glass, or any other personal computing devices
- Separate timers of any type
- Cameras or any other photographic equipment
- Any devices, including digital watches, that can be used to record, transmit, receive, or play back audio, photographic, text, or video content (with the exception of CD players used for Language with Listening Subject Tests only)

d. Project Policy

5% will be deducted for the late project report submitted on the same day after the last class, 10% for that submitted on the 2nd day, and 20% for that on the 3rd day. Any assignment submitted late for more than 3 days will NOT be accepted unless with a certified medical excuse or if it is agreed by Dr. Jang prior to the due time with reasonable explanation.

For projects, students can use the data obtained during class activities as well as participate on data collection with graduate students. For project, each student will process the data generated from fields

or chamber and interpret the processed data based on thermodynamic equilibrium processes and atmospheric evolution of air pollutants and the project outcome is individual.

Each individual should discuss the potential content with Dr. Jang and inform the project title (subject) till the due date in the schedule of this syllabus. To avoid multiple teams choosing the same topic, the first team to finalize the topic with Dr. Jang gets the right.

A 2-Page Proposal (1.5 line spacing, 12 Times New Romans, 1 inch margin on each side, letter size paper, no hand writing) should be submitted to Dr. Jang by the deadline specified in Schedule (due date in the schedule of this syllabus).

A Project Presentation will be scheduled at the end of the semester.

A 15 Project Report (1.5 line spacing, 12 Times New Romans, 1 inch margin on each side, letter size paper, no hand writing) is also required (due date specified in Schedule). The final report should be reviewed by one other team before submitted to Dr. Jang. It is the team's responsibility to arrange the review done before their submission, and the reviewers should sign on the draft (which should be submitted, too). In the report, the team should document how they respond to reviewer's comments. 5% of your project's final grade is based on the response to reviewer's comments, and 5% of your project final grade is based on your review of other's report. The purpose of this review is to get comments/suggestions from your classmates (regarding content, format, flow, etc), and you certainly should incorporate the comments/suggestions in the final version to be submitted. The weight of the grade: preliminary 2 page proposal 10%, final presentation 40% and final report 40%, report review by other team 5%, review of other project report 5%. Guidelines for the proposal/reports/presentation will be available at the course's website.

#### 17. Expectations for Honesty

Cheating is a very serious offense and will not be tolerated. All instances of cheating, no matter how minor it may seem to you, will be reported to the Dean of Students Office and prosecuted. The penalty for any instance of cheating is a grade of E for the semester. Actions that are considered cheating include, but are not limited to:

- Copying of homework solutions from another source or another student. Students are encouraged to work together to solve the homework, and thus it is expected that in some cases the homework solutions of two students will be the same. However, blatant copying can be identified and will be considered cheating.
- Copying from another student during an exam, or using disallowed resources (including programming information into a calculator) during an exam. Calculators will be spot-checked during exams.
- Plagiarism on written reports. Plagiarism is the practice of copying the text or ideas from other sources and presenting it as your own. A good explanation of plagiarism is available at <https://tomprof.stanford.edu/posting/1178>.
- Attempting to change answers or marked grades on homework assignments or exams after they have been graded and returned.
- Any other action which is an attempt to modify your grade for an assignment in a way that does not actually reflect your work or abilities.

#### 18. Students Requiring Accommodations

Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, <https://www.dso.ufl.edu/drc>) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

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UF students are bound by The Honor Pledge which states, "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor

received unauthorized aid in doing this assignment.” The Honor Code (<https://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/>) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class.

#### 21. Software Use

All faculty, staff and student of the University are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against University policies and rules, disciplinary action will be taken as appropriate. We, the members of the University of Florida community, pledge to uphold ourselves and our peers to the highest standards of honesty and integrity.

#### 22. UF Counseling Services

Resources are available on-campus for students having personal problems or lacking clear career and academic goals. The resources include:

UF Counseling & Wellness Center, 3190 Radio Rd, 392-1575, psychological and psychiatric services.  
Career Resource Center, Reitz Union, 392-1601, career and job search services.

#### 23. Student Privacy

There are federal laws protecting your privacy with regards to grades earned in courses and on individual assignments. For more information, please see:

<http://registrar.ufl.edu/catalog0910/policies/regulationferpa.html>

#### Grading Scheme 14. Course Grade:

1.	Reports	40%		
2.	2 Midterm Exams		30%	
3.	Attendance	5%		
4.	Project/presentation		25%	

#### 15. Grading Scales

grade	lower	upper	grade	lower	upper
A	90	100	C	70	73
A-	87	89	C-	67	69
B+	84	86	D+	64	66
B	80	83	D	60	63
B-	77	79	D-	57	59
C+	74	76	E	0	56

Grading will follow the UF system rule.

Grade is NOT curved in this course and will not be rounded.

The grade is based on absolute evaluation. Thus, it is possible for all students in the class to get an A (or an E). Your grade does not depend on how other students perform in the classroom but absolutely on how well you do in the class.

“A C- will not be a qualifying grade for critical tracking courses. In order to graduate, students must have an overall GPA and an upper-division GPA of 2.0 or better (C or better). Note: a C- average is equivalent to a GPA of 1.67, and therefore, it does not satisfy this graduation requirement. For more information on grades and grading policies, please visit:

<https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

**Instructor(s)** Dr. Myoseon Jang

**Air Sampling and Analysis**  
**ENV4932 (4112C) Section 13422**  
**Class Periods:** W |Period 9 - 11 (4:05 PM - 7:05 PM)  
**Location:** MAE A 0327 for lecture and BLK 411 for lab activities  
**Academic Term:** Spring 2019

***Instructor***

Dr. Myoseon Jang  
Email: [mjang@ufl.edu](mailto:mjang@ufl.edu)  
Office phone number: 352-846-1744  
Office room number: Black Hall 410  
Course information: <https://lss.at.ufl.edu>  
Office hours: 3:00 pm – 7 pm on Wednesday

***Teaching Assistant:***

- a. Name of TA and email: Han, Sanghee <s.han@ufl.edu>; Zhou, Chufan <zcfan323@ufl.edu>; Yu, Zechen <yuzechen@ufl.edu>
- b. TA Office location: Black Hall 414
- c. TA hour: 3:00 pm – 7 pm on Wednesday

***Course Description***

The class will apply the physical and chemical principles to measurement of gaseous and particulate pollutants in ambient air.

***Course Pre-Requisites / Co-Requisites***

Undergraduate coursework in organic chemistry or ENV4101.

***Course Objectives:***

Through this course, the student will be able:

- 1) To *describe* the principles of gaseous and particulate monitoring systems
- 2) To *measure* the major air pollutants such as NO<sub>x</sub>, SO<sub>2</sub>, ozone, hydrocarbons, and particulate matter
- 3) To *connect the measured data to the real world problems.*
- 4) To *interpret the data based on environmental conditions* under QA/QC protocols
- 5) To design the monitoring and sampling systems for measuring air pollutants

***Materials and Supply Fees***

None

***Professional Component (ABET):***

**Credit Hours** of engineering science

**Relation to Program Outcomes (ABET):**

<b>Outcome</b>	<b>Coverage*</b>
1. Solve problems	
2. Design	Medium
3. Communication	Medium
4. Make judgments	
5. Teamwork	Low
6. Conduct experiments	High
7. Acquire knowledge	Medium

\*Coverage is given as high, medium, or low. An empty box indicates that this outcome is not part of the course.

**Required Textbooks and Software**

No textbook

**Recommended Additional readings**

Journal articles

Standard Operation Procedure (SOP) for instrumentation

SOP for data analysis

EPA manuals

**Course Schedule**

**a Topics**

- 1) Calibration of NO<sub>x</sub>, ozone and SO<sub>2</sub> monitors and applying calibration factors to data processes
- 2) Calibration of the response of the gas chromatography/Flame ion detector (GC/FID) for several hydrocarbons in the Teflon bag
- 3) Monitoring of the number, mass concentrations of particulate matter using scanning mobility particle sizer coupled with condensation particle counter (SMPS-CPC) and Optical particle counter (OPC) and application to particle wall loss based on the 1<sup>st</sup> order rate.
- 4) Sampling of aerosol with Particle-Into-Liquid-Sampler (PILS) and applying PILS samples to ion chromatography (IC) to measure inorganic species (sulfate, nitrate, ammonium, sodium etc.)
- 5) Applying inorganic data to the inorganic thermodynamic models to estimate aerosol acidity and hygroscopicity
- 6) Measurements of Organic carbon/Elemental carbon (OC/EC) in particulate matter using thermal/optical methods
- 7) Ambient air monitoring
- 8) Chamber air monitoring
- 9) Particle impaction and application to FTIR (interpretation of functional group using the actual samples)
- 10) Project



## b. Schedule

Wk	Date	Topics	comments	Due
1	Jan. 9	NO <sub>x</sub> calibration, ozone calibration, SO <sub>2</sub> calibration		
2	Jan. 16	Chamber data: NO <sub>x</sub> , ozone, and SO <sub>2</sub> calibration	Gas data and data process	Report by noon/Friday
3	Jan. 23	Hydrocarbons: GC/FID (calibration)	Gas Data	
4	Jan. 30	Application to mixed gases	Gas Data process	Report
5	Feb. 6	Aerosol generation: Calculation of particle loss to the reactor walls with SMPS and OPC data Measurement of gas dilution by CCl <sub>4</sub>	Aerosol and gas data (outdoor)	Report
6	Feb. 13	Inorganic aerosol generation: PILS-IC and CCl <sub>4</sub> dilution	Aerosol data	
8	Feb. 20	Application of PILS-IC data to inorganic thermodynamic model to estimate aerosol acidity and aerosol water content	Interpretation of inorganic data	Report
7	Feb. 27	Exam I		
	Mar. 6	Spring Break		
8	Mar. 13	Denuder systems applied to ambient air: acid denuder, base denuder, and carbon denuder Calibration of OC/EC OC/EC of ambient aerosol with/without denuders	Denuders; OC/EC data	Report
9	Mar. 20	Ambient data: OC/EC, SMPS, OPC, PILS-IC (major compositions: inorganics and organics (secondary and primary))	Ambient Data Data collection for your project	Report
10	Mar. 27	SOA formation (indoor pollutions): apply to OC/EC, SMPS, OPC, hydrocarbons	Chamber Data Data collection for your project	Data
11	Apr. 3	SOA chamber experiment (mixture): apply to OC/EC, SMPS, OPC, hydrocarbons, and PILS-IC	Chamber Data Data collection for your project	Report Data
12	Apr. 10	SOA formation: impactor-FTIR	Aerosol Data	Report
13	Apr. 17	Exam II		
14	Apr. 25	Project presentation and final report		

### *Attendance Policy, Class Expectations, and Make-Up Policy*

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### *Evaluation of Grades*

#### *a. Overall*

Assignment	Total Points	Percentage of Final Grade
Reports	100 each	40%
2 Midterm Exams	100	30%
Attendance		10%
Project/presentation	100	20%
		100%

### ***b. Lab activities and Report Policy***

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- A lab report will be submitted individually. ***The report is due at noon on Friday in the same week when the report is assigned.*** The lab report includes the objective, method, data, the process of data, QA/QC, interpretation of data, and application to atmospheric process of pollutants and environmental policy.

### ***c. Midterm Exam Policy***

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B+	84	86	D+	64	66	possible for all students in the class to get an <b>A</b> (or an <b>E</b> ).
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