

**WINTHROP UNIVERSITY**  
**PHYS 351 Course Syllabus**  
**Department of Chemistry, Physics, Geology and the Environment**

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**Semester:** Spring 2024 **Course:** PHYS 351 – Topics in Physics

**Credit hours:** 3 **Pre-requisite:** Permission from the Department Chair or PHYS 202 or 212.

**Professor:** Dr. Fatima Amir

Office: SIMS 203, Office Hours: by appointment.

Phone: 323 4935, E-mail: [amirf@winthrop.edu](mailto:amirf@winthrop.edu)

**Textbook:** No book is needed for this class; journal papers will be provided to the students.

**Course Description:** Directed study of topics in physics which are not available through the regular curriculum. Notes: Offered in fall, spring and summer.

**Course Objectives:** Directed study of topics in physics which are not available through the regular curriculum

**Attendance:** Independent Study/Research

**Research:** SIMS 204B

**Class Policy:**

Students will be performing experiments on the fabrication and characterization of supercapacitors. Students will be trained on electrophoretic deposition, Zeta potential measurements, cyclic voltammetry, electrochemical impedance spectroscopy and galvanostatic charge-discharge.

**COVID-19 Statement:** Although COVID-19 has reached an endemic phase it is still important to remain vigilant as we face a recent rise in positive cases. As socially responsible members of this community, everyone is expected to engage in daily health self-monitoring, to stay home (residence hall or off-campus housing) from on-campus class, work, or activities if they begin experiencing any COVID-related symptoms.

When experiencing any COVID-related symptoms, students are expected to contact Health Services by completing the QI form in the Patient Portal and respond to the nurse who will contact them with instructions. COVID positive residential students are required to follow their QI plan for 5 days of isolation off campus so be prepared with a back-up plan as well.

By acknowledgement, you agree to Winthrop's expectations of you regarding health monitoring and reporting.

**Academic Dishonesty/Plagiarism:** Collaboration on assignments is welcome, but please keep in mind that your final, turned-in work should be your own and not copied. However, no form of cheating/plagiarism will be tolerated in this class. If anyone is suspected of academic dishonesty,

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I will privately speak with them in an attempt to reach a solution to whatever the problem is. If anyone is without doubt determined to be cheating on a given assignment/test and no resolution can be offered, *negative credit will be given*. In extreme cases, the Department and/or College administration will become involved. The policy on student academic misconduct is outlined in the “**Student Conduct Code Academic Misconduct Policy**” in the online *Student Handbook*: (<http://www2.winthrop.edu/studentaffairs/handbook/StudentHandbook.pdf>)

**Course Communication:**

1. Be sure to check your Winthrop email account daily, as I may send out course related announcements that will come \*only\* to Winthrop email addresses.
2. If you email me, please be sure to use your Winthrop email account I will respond to email within 24 hours except from Saturday morning through Sunday afternoon when my response may be slower.

**Students with Disabilities/Need of Accommodations for Access:** Winthrop University is committed to providing access to education. If you have a condition which may adversely impact your ability to access academics and/or campus life, and you require specific accommodations to complete this course, contact the Office of Accessibility (OA) at 803-323-3290, or, [accessibility@winthrop.edu](mailto:accessibility@winthrop.edu). Please inform me as early as possible, once you have your official notice of accommodations from the Office of Accessibility.

**CAS diversity and inclusion statement:** At Winthrop University in the College of Arts and Sciences, diversity, equity, and inclusion are essential to our academic mission and institutional identity. We value and see others as whole people. Our faculty, staff, and students work together to create a community where people of all races, ethnicities, genders and gender identities, sexualities, socioeconomic classes, cultural backgrounds, nations of origin, ages, religions, political perspectives, abilities, and body types can truly thrive.

**Exam Policy:**

There will be no exam in this class, students **will have a final paper.**

**Grading:**

The letter grade will be assigned as follows:

100% - 93% = A; 92.9% - 89% = A- ; 88.9% - 86% = B+; 85.9% - 80% = B; 79.9% - 76% = B-  
75.9%-73% = C+ ; 72.9% - 67% = C ; 66.9% - 64% = C-; 63.9%-60% = D; 59.9%- 0% = F