

# 1st Year Physics Seminar

PHY 1090 (1 cr)  
Spring 2016

**Class Meeting:** F 12:00pm – 12:50pm  
**Room:** SE 319  
**Instructor:** Dr. Korey D Sorge  
**Text:** Text if Applicable  
**Prereqs:** Prereqs if applicable  
**Coreqs:** Coreqs if applicable  
**Web:** course homepage on “BlackBoard”  
**Office Hours:** MW 10:00am – noon  
**Office:** S&E 116  
**Lab:** S&E 147  
**Email:** ksorge *at* fau *dot* edu (or through BlackBoard)  
**Phone:** (561) 297-3380 (FAU Physics Office)

## Course Description

First, we propose a First-Year Physics Seminar to be taken as early as possible in a physics major’s undergraduate career. This course will introduce Department faculty, facilities, and opportunities to engage in research and other Departmental activities later in students’ academic careers. It will also introduce the recommended curriculum, the planned schedule of upcoming courses, and help beginning students set goals and targets for their degree programs. Importantly, this course will also help to establish mentoring relationships early on, when students are still satisfying their lower-division degree requirements. Finally, this course may also include some placement testing to identify background topics in need of remediation

## Course Objectives / Student Learning Outcomes

At the completion of the course, students are expected to...

1. be aware of research focus and history of departmental faculty.
2. be aware of research facilities and opportunities on campus.
3. be aware of curriculum structure and organization.
4. have a completed meeting with an advisor to lay out a “degree timeline” and proposed progression of classes.
5. choose a faculty mentor.

## Course Evaluation Method

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Attendance =	60 pts
	(14 Class Meetings, 2 Absences Allowed, 5 pts / meeting)
Faculty member overview 1 =	5 pts
Faculty member overview 2 =	5 pts
Completed meeting with advisor =	5 pts
Completed “degree timeline” =	15 pts
Faculty mentor chosen =	10 pts
	= 100 pts

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Minimum of 70 pts required for “S”.

### Policy on makeup tests, late work, and incompletes

For attendance, there are 2 absences allowed with no documentation. There are no additional allowances for attendance.

Documents completed for a grade may be submitted up to 1 week late for 3 pts. After 1 week, these documents cannot be submitted for credit.

### Classroom etiquette policy

University policy on the use of electronic devices states: “In order to enhance and maintain a productive atmosphere for education, personal communication devices, such as cellular telephones and pagers, are to be disabled in class sessions.”

### Students with Disabilities

In compliance with the Americans with Disabilities Act (ADA), students who require special accommodations due to a disability to properly execute coursework must register with the Office for Students with Disabilities (OSD) located in Boca Raton—SU 133 (561-297-3880), and follow all OSD procedures.

### Honor Code

Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty, including cheating and plagiarism, is considered a serious breach of these ethical standards, because it interferes with the University mission to provide a high quality education in which no student enjoys an unfair advantage over any other. Academic dishonesty is also destructive of the University community, which is grounded in a system of mutual trust and places high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. For more information, see [http://www.fau.edu/ct1/4.001\\_Code\\_of\\_Academic\\_Integrity.pdf](http://www.fau.edu/ct1/4.001_Code_of_Academic_Integrity.pdf).

### Course topical outline

Students are expected to read and study for 2 hrs outside of the classroom for every 1 hr they spend in class. This means you have a *minimum* of 1 hrs and 40 min of outside study time every week for this course.

# PHY 1090: 1st Yr Physics Seminar

Spring 2016

Dr. Korey D. Sorge

Date	Lecture	Topic
Jan	8	1 The Physics Department and Opportunities Luc Wille, Melissa Troshnsky, Zia Smith
	15	2 Overview of courses offered by the department Korey Sorge
	22	3 Typical “degree timeline” for a physics major Korey Sorge
	29	4 Meetings with advisors for “degree timelines” Korey Sorge and Glenn Malone
Feb	5	5 The FAUST Group (Spacetime Physics) 1 Chris Beetle, Johathan Engle, Muxin Han
	12	6 The FAUST Group (Spacetime Physics) 2 Warner Miller, Wolfgang Tichy
	19	7 Materials Physics (1) Andy Lau, Theodora Leventouri, Korey Sorge
	26	8 Materials Physics (2) Shen Li Qiu, Luc Wille
Mar	4	<b>NO CLASS — Spring Break</b>
	11	9 Medical Physics Georgios Kaantzis, Theodora Leventouri
	18	10 Optics Grigoriy Kreymerman, Warner Miller
	25	11 Computational Physics and Complex Systems Armin Fuchs
Apr	8	12 FAU Laboratories De Huai Chen, Shen Li Qiu
	15	13 FAU Observatory Eric Vandernoot
	22	14 Overview of Department and Mentors
	26 & 27	<b>Reading Days</b>
	28	<b>Final Class Meeting</b>