Instructor: Alexander Wagner  
South Engineering 210  
231-9582  
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http://www.ndsu.edu/physics/people/faculty/wagner/

Meetings: 15:30 - 16:45 Tuesday, Thursday in Gate City Auditorium

Office hours: 10:00 - 11:30 Wednesday, or by arrangement

Text: Physics, Concepts & Connections, Art Hobson  
Optional: David C. Lindberg, The Beginnings of Western Science

Topics: What is science?, atoms, how things move, why things move, Newton’s universe, conservation of energy, second law of thermodynamics, electromagnetism, waves & light & climate change, special theory of relativity, Einstein’s universe and the new cosmology, the quantum idea, the quantum universe, the nucleus and radioactivity, fusion and fission, the energy challenge, quantum fields  
We will cover about one chapter each week.

Grading: Problems in LON-CAPA: 100pts  
Test 1, Sept. 17: 100pts*  
Test 2, Oct. 15: 100pts*  
Test 3, Nov. 19: 100pts*  
Final, Dec. 19, 10:30am-12:30pm: 100pts  
Participation etc.: bonus

* No makeup exams will be scheduled. Only the two best grades of the three tests count towards the final grade.

- Any students with disabilities who need accommodation in this course are encouraged to speak with the instructor as soon as possible to make appropriate arrangements.
- All work done in this course must be completed in a manner consistent with NDSU University Senate Policy, section 355: Code of Academic Responsibility and Conduct (http://www.ndsu.nodak.edu/policy/355.htm)