

Fundamentals of HVAC: AE 310– S10

Class Lecture and Practicum Hours:

	Sec 1 & Sec 2	28	5	M W F 8:00 – 8:50 a.m. Tues 03:35P - 05:30P	162 Willard 109 Walker	FREIHAUT, JAMES	(814) 863-0083
	Sec 3 & Sec 4	28	5	M W F 8:00 – 8:50 a.m. Thurs 03:35P - 05:30P	162 Willard 109 Walker	FREIHAUT, JAMES	(814) 863-0083

Class Web Sites: ANGEL (<http://cms.psu.edu>) AE310Fundamentals of HVAC
Architectural Engineering Y-Drive (AE310-S10 folder)

Text: Fundamentals of HVAC (ASHRAE E-Learning Course: www.ashrae-eLearning.org)

References: Heating, Ventilating, and Air Conditions: Analysis and Design (6th Edition), F.C. McQuiston, J. Parker, J. Spitler, John Wiley & Sons, New York (2005)

ASHRAE Handbook Fundamentals

Cooling & Heating LOAD CALCULATION PRINCIPLES, ASHRAE, Pedersen, et. al .1998.

ASHRAE Handbook HVAC Applications

Thermal Environmental Engineering, (3rd Edition) T. H. Kuehn,, J. W. Ramsey, J.L. Threkel

Heating and Cooling of Buildings,.(2nd Edition) Kreider, Curtiss, and Ari Rabl (2002)

Fundamentals of Engineering Thermodynamics, M. Moran and H. Shapiro, 5th ed. ,Wiley

All above can be found in Hammond Engineering Library Shelves

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221 Engineering Unit A Mailbox: 104 Engineering Unit A

Teachin Assistant: Ke Xu
Grading Assistant: Minjie Zhao

Office Hours: Tuesdays & Wednesdays 10:10 – 12:05p.m. or by appointment
Please indicate ahead of time by seeing me at end of class, telephoning my office, e-mail communication.

Class Policies:

- University Policy 49-20 governs academic integrity issues.
- Homework problems, questions and E-Learning activities will be assigned regularly and evaluated and will represent 10% of final grade.
- Attendance consistency will be used to resolve borderline grade disputes.
- Exam grades will be reviewed if paper and a written explanation of correction error are submitted within seven days after you have received the originally corrected exam.
- Documented excused absences are only reason an exam would be rescheduled on a personal basis.

Grading:

- Tests = 60% (3 tests during term; ~ 1st week of February, March, April)
- Homework , E-Learning Assignments = 10 % if on time and every problem/question attempted
- Projects = 10- 20% (Blue Band project during term- TBD)
- Final Exam = 10 - 20%
- Attendance = Taken every class lecture and/or practicum; used to resolve border line grade issues