ETES 5025 / 7025: Technical Design Graphics
Tentative Schedule – Fall Semester 2006
Revised Monday, November 13, 2006

Session 1 – August 21

- Syllabus and course information discussed
- Equipment and materials needed
- Inbox/outbox areas
- Class web site
- Student pictures for web site directory
- Discussion of intro materials and technical drawing fundamentals
- Overview of engineering graphics materials
- Intro to multi-view projection
- Complete problems 6.52; #2, 5, 9, 12, 18, 20 by sketching on ¼" cross-section paper (exercise 1 / 30pts)
- Acquire textbook

Session 2 – August 38

- Check roll, announcements, questions
- *Engineering Graphics* chapters 1 – 4; planes of projection (p. 9), equipment techniques (pp. 43 – 58), lettering (p. 73), geometric constructions (pp. 84 – 102)
- Read chapter 1 – 5 in *Engineering Graphics* prior to next class period
- Complete problems 4.1, 4.2, 4.7, 4.8, 4.20, 4.22, 4.24, 4.27, 4.31, 4.32 (exercise 2 / 50 pts)
- Complete *Try It Tutorials – Basics – parts 1 thru 3* (exercise 12; 5 each / 15 total)

September 4 – Labor Day Holiday

Session 3 – September 11

- Check roll, announcements, questions
- *Engineering Graphics* chapter 5; sketching
- Read chapter 6 in *Engineering Graphics* prior to next class period
- Sketch multiview drawings for 5.54 #1, #5, #9, #13 – manual or CADD (exercise 3 / 20 pts)
- Complete *Try It Tutorials – Basics – parts 4 thru 9* (exercise 12; 5 each / 30 total / this portion optional and for extra credit)

Session 4 – September 18

- Check roll, announcements, questions
- Autodesk Presentation by Company Rep
- *Engineering Graphics* chapter 6; multiview projection
- Read chapter 7 in *Engineering Graphics* prior to next class period
- Construct a multiview drawing for 6.52 #5 – manual with instruments or CADD (exercise 4 / 20 pts)
- Construct a multiview drawing for 6.61 – manual with instruments or CADD (exercise 5 / 25 pts)

Session 5 – September 25

- Check roll, announcements, questions
- *Engineering Graphics* chapter 7; sectional views
- Read chapter 8 in *Engineering Graphics* prior to next class period
- Construct a half section with necessary views for 7.42 – manual with instruments or CADD (exercise 6 / ?? pts)

Session 6 – October 2

- Check roll, announcements, questions
- *Engineering Graphics* chapters 8 and 9; auxiliary views and revolutions
- Read chapter 9, 10, & 14 in *Engineering Graphics* prior to next class period
- Complete ADA 2007 pp. 21-47, Unit 3; move work to a unit_3 folder and place a copy in your inbox on the network in the lab during our next class session

Session 7 – October 9

- Check roll, announcements, questions
- Review for midterm examination
- *Engineering Graphics* chapter 10 and 14; auxiliary manufacturing processes, design, working drawings
- Complete ADA 2007 pp. 48-69, Unit 4; move work to a unit_4 folder and place a copy in your inbox on the network in the lab during our class session three weeks from now

Session 8 – October 16

- Check roll, announcements, questions
- Midterm Examination
- Read chapters 11 and 12 in *Engineering Graphics* prior to next class period

Session 9 – October 23 (asynchronous online session using WebCT – no formal class meeting 10/23)

- *Engineering Graphics* chapter 11 and 12; dimensioning and tolerancing
- During the weeks of October 16 and October 23 visit the WebCT site for this class and respond to the items posted on the bulletin board area
- Read chapter 13 in *Engineering Graphics* prior to next class period
- Complete ADA 2007 pp. 70-89, Unit 5, Lesson 1; move work to a unit_5 folder and place a copy in your inbox on the network in the lab during our next class session

Session 10 – October 30

- Check roll, announcements, questions
- Descriptive geometry presentation and assignment (p.594, fig.19.34, #3; p.595, fig.19.35, #1; p.618, fig.20.23, #2, #3) – manual with instruments or CADD (exercise 7 / ?? pts)
- Read chapter 16 in *Engineering Graphics* prior to next class period
- Complete ADA 2007 pp. 90-109, Unit 5, Lesson 2; move work to a unit_5 folder and place a copy in your inbox on the network in the lab during our next class session

Session 11 – November 6 (synchronous online session using Horizon Wimba Live Classroom – meet online at 4:30 using ETES 5025 7025 classroom – enter thru WebCT)

- Check roll, announcements, questions
- *Engineering Graphics* chapter 13; threads, fasteners, and springs
- *Engineering Graphics* chapter 16; axonometric projections
- Read chapter 17 in *Engineering Graphics* prior to next class period
- Complete ADA 2007 pp. 110-128, Unit 6; move work to a unit_6 folder and place a copy in your inbox on the network in the lab during our next face-to-face class session

Session 12 – November 13 (synchronous online session using Horizon Wimba Live Classroom – meet online at 4:30 using ETES 5025 7025 classroom – enter thru WebCT)

- Check roll, announcements, questions
- *Engineering Graphics* chapter 17; oblique projection
- introduction to *Engineering Graphics* chapter 25; graphical vector analysis

- Graphical vector analysis assignment (p.708, fig.25.15, #2; p.713, fig.25.20, #2) – manual with instruments or CADD (exercise 8 / ?? pts)
- Read chapters 19, 20, and 25 in *Engineering Graphics* prior to next class period
- Complete ADA 2007 pp. 129-158, Unit 7, Lesson 1; move work to a unit_7 folder and place a copy in your inbox on the network in the lab during our next face-to-face class session

Session 13 – November 20 face-to-face session

- Check roll, announcements, questions
- *Engineering Graphics* chapter 25; graphical vector analysis
- *Engineering Graphics* chapter 25; graphical vector analysis
- Complete ADA 2007 pp. 159-175, Unit 7, Lesson 2; move work to a unit_7 folder and place a copy in your inbox on the network in the lab during our next class session

Session 14 – November 27

- Check roll, announcements, questions
- MasterCAM & computer controlled machines
- ADA 2007 assignment and/or other drawings TBA

Session 15 – December 4

- Check roll, announcements, questions
- Review for final examination
- Complete course evaluation

Final Examination – December 11th