ME 481/581 Syllabus and Grading

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Textbook: Class Notes

Office hours: By Arrangement

**Syllabus**

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| Topic |
| Dimensions and Tolerances – Solid Works |
| Unconstrained fits-I |
| Unconstrained fits-II |
| Orientation-constrained fits |
| Location-constrained fits - I |
| Location-constrained fits - II |
| Default tolerances |
| Multi-Part fits |
| Overview of geometric tolerances-I |
| Overview of geometric tolerances-II |

Grading

* HW (team) 25%
* Midterm Exam 25%
* Final Exam 50%

Grading scale

* 90-100 A
* 80-90 B
* 70-80 C
* 60-70 D
* <60 F

HW is team-based – **Everyone must belong to a team (size 3)**. This allows you to share information and help each other and me to give you meaningful feedback. Make your own teams. All those who do not end up in a team will be randomly put together into teams.

**One HW per team in pdf format submitted through Canvas**. That is the only thing we’ll do with Canvas. Work that is done on paper must be scanned using an app such as CamScan into a pdf document. CamScan is free and makes the handwritten documents much more readable. Please do not take regular pictures with your phone and submit those.

**Class Format**

We will do a lot of in-class exercises and learn from each other’s mistakes. You must be willing to participate in these class exercises. Attendance is mandatory but no grades is assigned to it. **There will be no videos of the class**. Bring a good pencil and a good eraser and a small ruler or right angle – red color pencil is also good to have. Please turn off your phones and do not bring food to class (coffee, tea, water, and soda are ok). Please be in class on time.

**Other notes**

* If you do not know much about the subject (GD&T), it is not a good sign
* This class helps you find a job in design or manufacturing
* Not a typical elective: You must work hard to get a good grade.

**Class Rules**

* Please come to class on time
* Please do not talk unless it is permitted – whispering is OK.
* Please do not bring food to class (drinks are ok)
* Please take a break from your phones and do not surf the web on your laptops
* You can use your phone to take pictures of the board if you need it

**HW Process Suggestions**

* You will belong to a team of size 3
* Although you have a team, the HW can easily be done by one person, I suggest:
  + Do the HW on your own first
  + Get together or share your solutions and discuss difference and make changes
  + Assign one person to submit the final version on Canvas (the same person for all HWs)
  + Sharing information between teams is also allowed (remember, the grades are not curved and you are not competing against each other)
* I only answer clarification questions about the HW assignments or a very specific question.

**Final Word and Warning**

* This subject looks deceptively easy but it is also inexplicitly hard
* You must work hard to get a good grade – Last year’s average was about 80 (B- or C+)
* Class attendance is very important – if you miss a class get the notes from a team member of friend in class
* Please try to participate specially to make mistakes as we learn the most from mistakes

**Contact**

* The best way to answer your questions is through email.
* We can also do in-person meetings by arrangement – email me to set it up