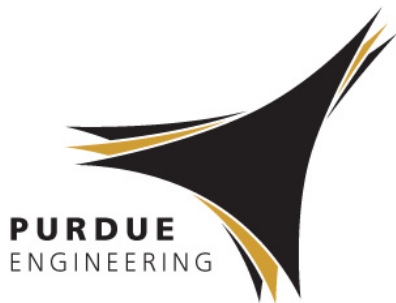


Spring, 2015

# ME 612 – Continuum Mechanics

## Lecture 20

### Guidelines for special project



Instructor: Prof. Marcial Gonzalez

September 21, 2021

# Lecture 20 – Guidelines for special project

## Exams:

- One in-class midterm exam, April 2nd, closed book, ~~closed notes~~.  
Room: EE005 Time: 3-5PM
- No final exam.

## Project:

- Research oriented.
- You will be evaluated based on your weekly progress, a final presentation and a final written report.
- Details will be given during the semester.

## Grading:

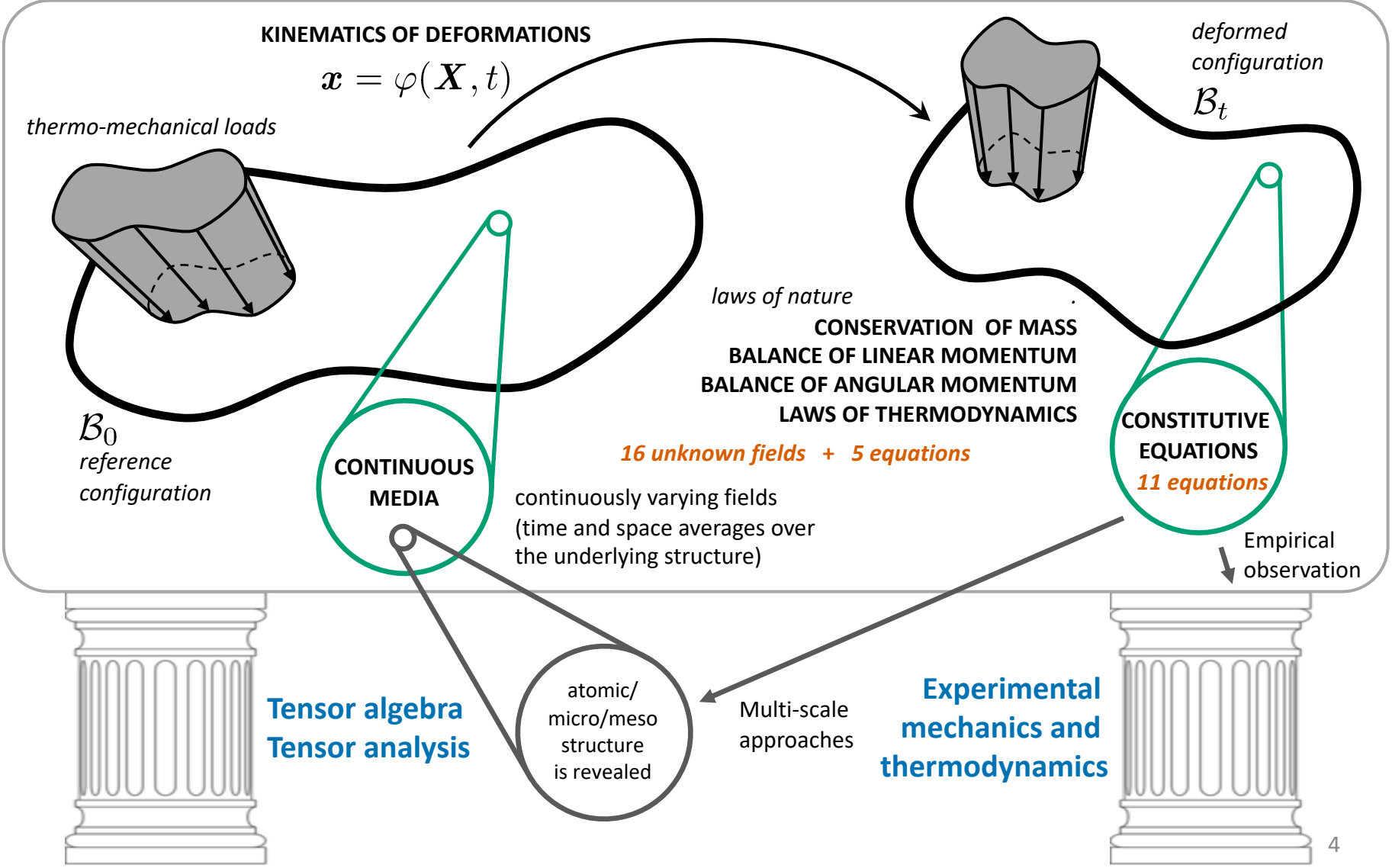
- Homework (30%), midterm exam (40%), final project (30%)  
Note: 5 HWs, 6 pts. each.
- Grades are not curved.

# Lecture 20 – Guidelines for special project

## Schedule for the rest of the semester

03/31 (20) Guidelines for special project	04/02 MIDTERM (3 to 5 p.m.) EE005		
04/07 Project progress report #1a (presentation)	04/09 Project progress report #1b (presentation)		
04/14 (22) Energy principles and stability	04/16 Project progress report #2 (presentation)		HW5 posted
04/21 (23) Constitutive relations (plasticity)	04/23 Project progress report #3 (presentation)		
04/28 (24) TBD	04/30 Project progress report #4 (presentation)		HW5 due
05/04 – ME 1009 Time TBD (7.30 – 10 a.m.): Final project report and presentations			

# Lecture 20 – Guidelines for special project



# Lecture 20 – Guidelines for special project

## Special project:

- GOAL: Demonstrate that you've learnt to read and understand state-of-the-art continuum mechanics literature!
- Closely related to your research (or not!)
- Examples:
  1. Choose one seminal paper, understand its details, be able to explain it in your own words, include a summary in your final report together with a literature review that explores the impact of this work
  2. Choose one paper closely related to your research, understand its details, be able to explain it in your own words, include a summary in your final report together with an assessment of its impact on your own research
  3. Choose one paper that relaxes one of the basic hypothesis of continuum mechanics, understand its details, be able to explain it in your own words, include a summary in your final report together with a literature review that explores the area of application of this work

# Lecture 20 – Guidelines for special project

## Weekly progress report:

- Tuesday (04/07) and Thursdays (04/09, 04/16, 04/23, 04/30)
- Prepare two slides (send them to me before class)
- Present your weekly progress (5 minutes)
- Present your goals for next week (1 minutes)
- Q&A and feedback (3 minutes)
- Goals of the revision and feedback:
  - Reinforce connection between fundamental topics covered in class and the specifics of your topic/application
  - Highlight aspects that MUST be explored, addressed, or improved
- Grading: 10% of final grade (33% of project grade)

# Lecture 20 – Guidelines for special project

## Final presentation:

- Monday, May 4<sup>th</sup>, from 7.30 am to 10 am
- 10 minutes to deliver your presentation (send it to me before class)
- Rewrite equations using the notation and nomenclature adopted in the class
- Grading: 10% of final grade (33% of project grade)

# Lecture 20 – Guidelines for special project

## Final report:

- Monday, May 4<sup>th</sup>, 7.30 am
- Technical report in LaTeX, maximum of 4 pages
- Rewrite equations using the notation and nomenclature adopted in the class
- Grading: 10% of final grade (33% of project grade)



# Lecture 20 – Guidelines for special project

## Schedule for the rest of the semester

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04/07 (A) Project progress report #1a (presentation)	04/09 (A) Project progress report #1b (presentation)		
04/14 (22) Energy principles and stability	04/16 (B) Project progress report #2 (presentation)		HW5 posted
04/21 (23) Constitutive relations (plasticity)	04/23 (C) Project progress report #3 (presentation)		
04/28 (24) TBD	04/30 (D) Project progress report #4 (presentation)		HW5 due
05/04 – ME 1009 Time TBD (7.30 – 10 a.m.): Final project report and presentations			

### Example 1:

- (A) Choose one seminal paper (*consider bringing more than one option*),
- (B+C) understand its details, be able to explain it in your own words, include a summary in your final report together with
- (D) a literature review that explores the impact of this work

# Lecture 20 – Guidelines for special project

## Schedule for the rest of the semester

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### Example 2:

- (A) Choose one paper closely related to your research (*idem*),
- (B+C) understand its details, be able to explain it in your own words, include a summary in your final report together with
- (D) an assessment of its impact on your own research

# Lecture 20 – Guidelines for special project

## Schedule for the rest of the semester

03/31 (20) Guidelines for special project	04/02 MIDTERM (3 to 5 p.m.) EE005		
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### Example 3:

- (A) Choose one paper that relaxes one of the basic hypothesis of continuum mechanics (*idem*),
- (B+C) understand its details, be able to explain it in your own words, include a summary in your final report together with
- (D) a literature review that explores the area of application of this work

# Lecture 20 – Guidelines for special project

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Any questions?