Sec.0

EGM 3520 Mechanics of Materials (MoM)

Motivation 1: Important historical case,
Titanic, why the disaster happened

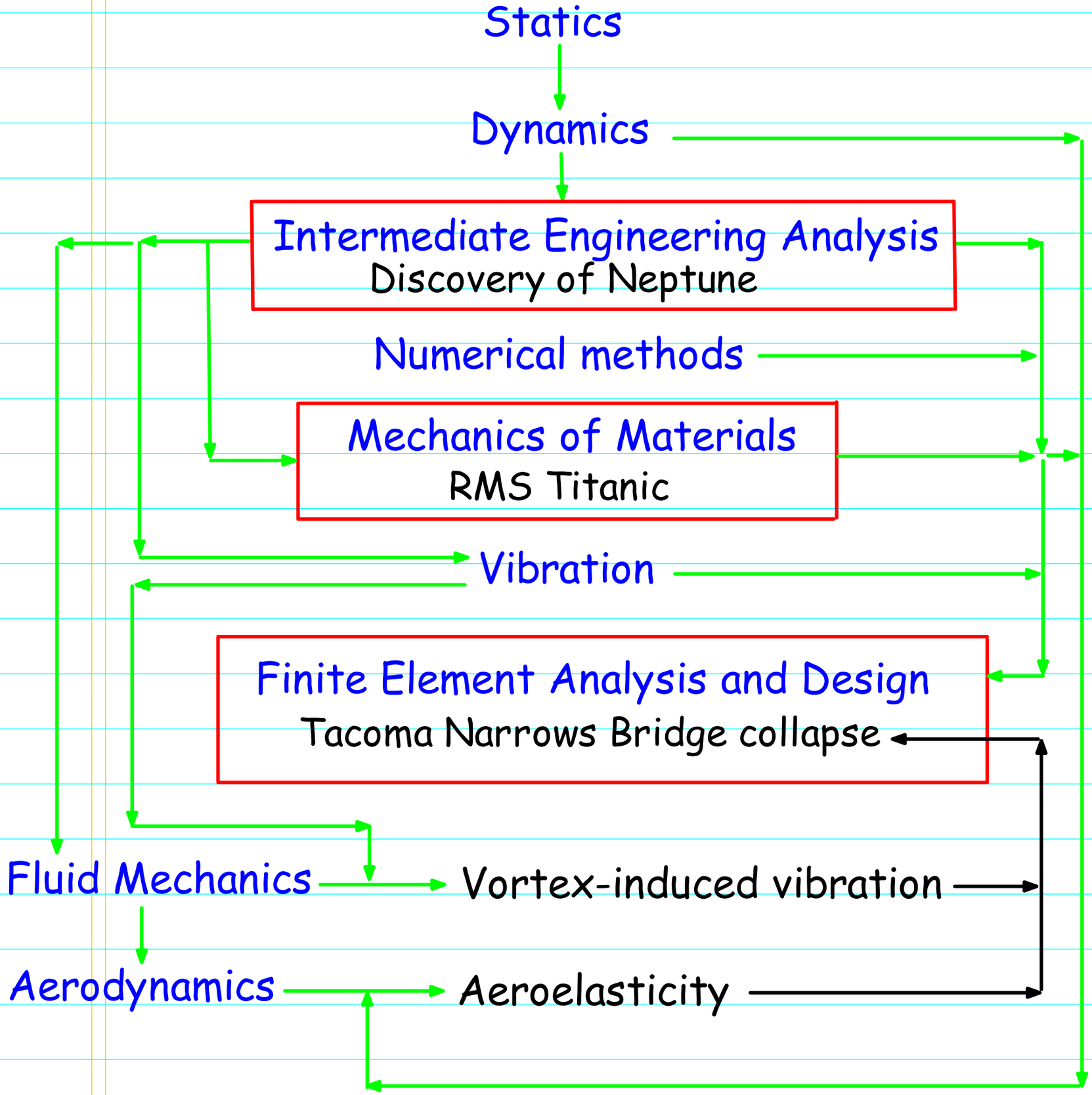
Curriculum roadmap: The big picture

Motivation 2: Simpler cases for MoM course

Important course information

Motivation 3: Important historical case,
Tacoma Narrows Bridge collapse

Curriculum roadmap: The big picture



english course number spring 2013

Course wiki: http://en.wikiversity.org/wiki/User:Egm3520.s13

my wiki username

Course info: Click at course title

Syllabus: From course info

Other important info: Policy, reports, exams, grading

Also access from Sakai https://lss.at.ufl.edu/

Important links

"The formulation of a problem is often more essential than its solution, which may be merely a matter of mathematical or experimental skill."

A. Einstein in [Dan Meyer: Math class needs a makeover]
http://www.youtube.com/watch?v=NWUFjb8w9Ps

Lecture plan: Including lecture notes, references, inspiring quotations, and other info related to the course. See syllabus and other course wikis.

Report table: **Formal project reports**, NOT the usual (and casual) HW for 10% course grade. Used for **team presentations**. See other courses wikis.

Writing tools: Important docs for efficient wiki writing

Writing tools, pros and cons

Collaborative writing: Mediawiki

Almost-WYSIWYG wiki writing

Macros for MS Word, OpenOffice

Other courses: Browse through to have an idea

Additional collaborative tools:

Open your skype account http://www.skype.com/

Conference call (team, TAs, instructor)

Open gmail account to use google+

Screen sharing in groups of more than two

Open your scribblar account http://www.scribblar.com/

Online white board for discussion
(team, TAs, instructor)

Team formation

Fill survey form (sent out by e-mail) **immediately** upon receiving it, before drop/add deadline.

HW:

Read course info, syllabus, policy

Browse Report Table

Read Writing tools, pros and cons
Almost-WYSIWYG wiki writing
Report guidelines

Open skype, gmail, scribblar accounts, and fill
(sent out by e-mail)

(end HW) ///

Note:

HW = assignments, no written report required.

Pb-sc.n = Problem for section "sc", number "n".

3 slashes (///) mark the end of a section that begins with a blue, underlined title.

Page number 1-4 = Section number 1, page 4.

(end Note) ///

Enroll = Agree with teaching and learning style
("Open-source" teaching and learning)

Note: Class mailing lists (listserv)

Important course info, announcements, etc. are conveyed by e-mail via the class mailing lists.

It is important that you are on the class mailing list. I already sent out e-mails to the class mailing list; if you did not receive any of my e-mails through listserv, that means your e-mail address was not on the list.

If you are registered for the course, and did NOT receive my e-mails to listserv, please send me an e-mail with the subject header

"**MoM**: Add e-mail to class mailing list"

subject tag for ALL e-mails related to the course

IMPORTANT: If you are a new student at UF, and have not logged into your UF webmail (gatorlink) account for the first time, **do so immediately** so your gatorlink e-mail address would be registered in the class roll, and added to the class mailing list of your section. Set webmail to forward your gatorlink e-mails to your main e-mail account (e.g., gmail, yahoo, etc.)

Class e-mail archive:

All e-mails to the class are archived. To search for all class announcements, go to the class e-mail archive.

For instructions on how to access the class e-mail archive, go to course web site (syllabus):

https://sites.google.com/site/eml4507.s13/

Inspiring video on teamwork and learning:

A hole in the wall, how children learn without a teacher

http://www.ted.com/talks/sugata_mitra_shows_how_kids_teach_themselves.html

http://en.wikiversity.org/wiki/User:Egm6321.f12/Report_table

Massive open online courses: edX (MITx), Coursera

"... MOOCs are creating opportunities in developing countries. This spring, students at a high school in Mongolia participated in an engineering MOOC, and two of them earned A's. "It is not difficult to imagine a talented Mongolian high school student applying to MIT with such a credential in hand," says ... a Stanford graduate student who [taught] at the Mongolian school."

Marklein, USA Today, 2012.09.12

IPPD = Integrated Product and Process Design

"Even though my IPPD project was with a different sponsoring company, I was able to use my opportunities from IPPD to relay my experiences with teamwork, overcoming obstacles, and leadership during my interviews with Lockheed Martin."

P.W., a Software Engineer at Lockheed Martin, graduated in 2007, UF with a Bachelors in Computer Science in Engineering degree, Lockheed Martin Leadership Development Program

So what about P.W. ?

MOOCs and latex: Tools for

- Life-long learning
- Professional advancement

P.W.

- Took a MOOC on Artificial Intelligence (AI)
- Top 1000 among 160,000 students
- Left Lockheed Martin, Orlando for Google
- Top salary of software engineers: Google