# Today’s Program

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:15</td>
<td>Check In</td>
<td></td>
</tr>
<tr>
<td>10:35</td>
<td>Opening Remarks</td>
<td>Jeffrey B. Goldberg, Dean</td>
</tr>
<tr>
<td>10:35</td>
<td>Synopsis : Classroom/Campus Technology</td>
<td>Phillip Medlock/ Mildred Curran, Freshman Advisor</td>
</tr>
<tr>
<td>10:45</td>
<td>Classroom Expectations: A Professor’s Perspective</td>
<td>Armin Sorooshian, ChEE Associate Professor</td>
</tr>
<tr>
<td>10:53</td>
<td>Q &amp; A with Panel</td>
<td>Engineering Student Council</td>
</tr>
<tr>
<td>11:06</td>
<td>Closing Remarks</td>
<td>James C. Baygents, Assoc. Dean</td>
</tr>
</tbody>
</table>
The College of Engineering Mission

Our mission is to improve the quality of life through excellence in education and research. To achieve this we will serve all who have an interest in our success and be the vanguard in the creation and improvement of the nation's essential systems and technologies. By emphasizing the fundamentals of math, science and engineering, we will foster life-long learning, leadership, and productive careers.
College Values

Excellence
Cooperation
Openness
Diversity
Ethics
Engineering Freshman Advisors:

Mildred Curran  
(Last Name: A-J)

Phillip Medlock  
(Last Name: K-S)

Marisa Pope-Malings  
(Last Name: T-Z)

ENGR-Advising@email.arizona.edu
Engineering Freshman Advising

- Office: Engineering Building, Room 104
- Advising: walk-in hours M/W/F 1:30 - 4:00
- Remember your student ID
- Use your Catmail - Official UA email
- www.engineering.arizona.edu
- Math Tutoring
- Facebook & Twitter
- Go to Welcome Week events
- Have fun
- Use your Planner

ENGR-Advising@email.arizona.edu
Outline
(Here’s what we are going to cover in the rest of the hour)

• Synopsis of classroom/campus technology
• Classroom expectations
• The syllabus
• Code of Conduct/Academic Integrity
• Advice from successful students
Email Matters

• Official University Communication
• Email Etiquette (pg. 10 in your planner)
  – Create Email Filters
  – Don’t forget to check your UA email
  – Use your UA email account with corresponding with instructors
  – Use the ENGR-Advising@email.arizona.edu email
  – Include your first name, last, student ID, and intended major
  – Use correct spelling and proper grammar (Do not use text speak)
  – Be formal and respectful
  – Reread and edit your email before you send it
  – DO NOT WRITE IN ALL CAPS
Campus Technology

• What is UAlert?
  – Free service that can send emergency alerts via cell phones, mobile devices and/or email accounts

• You are automatically signed up for UAlert
  – If you accidentally opted out, you can add yourself back in, http://cert.arizona.edu/ualert
Online Security

• Setting Passwords
  – https://netid.arizona.edu

• Using UA WiFi
  – Secure network - UAWiFi
  – Unsecure - UAGuest (not recommended)

• Phishing
  – Spam and pop-up message appear to get your personal/financial information
Tech Tools

Technology Troubles? 24/7 IT Support Center

University Information Technology Services (UITS)

• Phone: (520) 626-TECH (8324)
• Walk-in: Martin Luther King Building (MLK) 207
• 1322 E. 1st Street (Mountain Ave between 1st and 2nd Streets)
• www.uits.Arizona.edu
Student Support Networks

• Faculty & Staff
  – Professors, Instructors
  – Academic Advisors
  – Teaching Assistants
• Dean of Students Office
• Writing Center (THINK TANK)
• UA Libraries
• Counseling and Psych Services (CAPS)
Perspectives from a Professor
Technology in the Digital Classroom

Desire2Learn (D2L)

- Course management system
- Access content 24/7 from any computer
- For those students in ENGR 102A and ENGR 196D, your D2L site is called “Introduction to Engineering Lecture Series”
Infinite Possibilities …
Tech Tools: Clickers

Clickers may be used for...

- Taking attendance
- Gauging prior knowledge of a subject
- In-class quizzes
- Self-paced testing
- Group activities
- Cell phone style text entry
- Classroom activity as determined by the instructor
Tech Tools: Clickers

Clickers are required for ENGR 102A, ENGR 102AH and ENGR 196D

– Get a clicker before class on 8-25 as you will get a chance to practice.
– Starting on 9-1 clickers will be used for attendance.
– QT2, QT, NXT, and XR clickers can be used.
– See D2L news for how to register your clicker.
– ResponseWare (cell phones) will not be allowed in ENGR 102A, ENGR 102AH, or ENGR 196D.
Tech Tools: Clickers

Clickers are required for ENGR 102A, ENGR 102AH and ENGR 196D

- You can purchase a new QT2 clicker at the bookstore for $79.99. This will include a 4 year license.
- You can purchase a new QT2 clicker online for $59.99. This will also include a 4 year license.
- If you chose to purchase a used clicker you will still have to purchase a 1 year license for $19.99.
Class Expectations

• Classroom Instruction & Assistance
  – Instructors
  – Teaching Assistants (TAs)
  – Preceptors
  – Graders
  – Mentors

• Office Hours
Class Expectations

every course and professor is unique

• Expectations will differ class-by-class in:
  – Email
  – Syllabus
  – Grading
  – Communication
  – Office hours
  – Classroom behavior guidelines

• Individual professors define appropriateness in their class

• DO NOT use excuses for not following classroom policies based on hearsay; refer to your instructor’s expectations
Course Syllabus

What is a Syllabus?

“...a statement of intent and serves as an implicit agreement between the instructor and students.” (University of Arizona, 2016)
Example of a Syllabus

Notable Components

- Course Prerequisites
- Instructor and Teaching Assistant (TA) information
- Required Textbook

CHEE 420/520: Chemical Reaction Engineering
Saguaro Hall (Room 101); T/Th 9:30–10:45 (Fall 2016)
Syllabus

Course Prerequisites
CHEE 201, CHEE 326, MATH 254

Description of Course
Study and apply the fundamental principles of chemical reaction engineering to design and analyze basic chemical reactors that contain both homogeneous and heterogeneous reactions.

Instructor and Contact Information
Prof. Armin Sorooshian (armin@email.arizona.edu); Harshbarger 108E; 520-626-6769
Office hours: Open Door Policy
Teaching Assistant: To Be Determined (XXX@email.arizona.edu); Harshbarger 112; Office Hours: Wed 1–3, Fri 1–3

Course Format and Teaching Methods
Lecture only with some interactive discussion

Course Objectives and Expected Learning Outcomes
Students are expected to be knowledgeable and experienced with the following: (i) chemical reactor design equations under both isothermal and non-isothermal conditions; (ii) analysis of reaction rate data; (iii) multiple reaction scenarios; (iv) enzymatic reaction fundamentals; (v) catalysis and heterogeneous data analysis.

Absence and Class Participation Policy
The UA's policy concerning Class Attendance, Participation, and Administrative Drops is available at: http://catalog.arizona.edu/2015-16/policies/classatten.htm

The UA policy regarding absences for any sincerely held religious belief, observance or practice will be accommodated where reasonable, http://policy.arizona.edu/human-resources/religious-accommodation-policy.

Absences pre-approved by the UA Dean of Students (or Dean Designee) will be honored. See: http://uhap.web.arizona.edu/policy/appointed-personnel/7.04.02

Participating in course and attending lectures and other course events are vital to the learning process. As such, attendance is required at all lectures and discussion section meetings. Students who miss class due to illness or emergency are required to bring documentation from their healthcare provider or other relevant, professional third parties. Failure to submit third-party documentation will result in unexcused absences.

Course Communications
Course Website: D2L website for ChEE 420/520

Required Textbook

*It is fine to use other editions of this book
Assignments and Examinations: Schedule/Due Dates
There will be approximately eight homework assignments, three midterm exams, and a final exam.

Homework: Homework is due at the beginning of class on the scheduled due date. To receive credit, all work must be original and that of the student and not from any other source (e.g., other students, solution manuals, etc). Late homework will not be graded. Homework that is not stapled or that does not have your name will not be graded and will receive a grade of 0%. All work that is not picked up beyond 1 week after the first day a return is attempted will be recycled to ensure students are responsible and up-to-date.

Exams: Exams are open book/notes, and 75 minutes long (final exam though is two hours). You can use calculators and pencils (all other materials you will need for the exam will be provided).

Make-up exams: A make-up exam may be arranged if you notify the instructor before the regularly scheduled exam. A makeup exam will be scheduled only if the student has a valid reason for missing the regularly scheduled exam.

Final Examination
The date and time of the final exam (also shown in previous table), along with links to the Final Exam Regulations can be found here:
http://www.registrar.arizona.edu/schedules/finals.htm

Grading Scale and Policies
The class will be graded on a straight scale (A = 100-90; B = 89-80; C = 79-70; D = 69-60; E: < 60) based on the assignments and weighting shown in this table:

<table>
<thead>
<tr>
<th>Grade Item</th>
<th>Percent Weight Towards Final Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Problem Sets</td>
<td>10%</td>
</tr>
<tr>
<td>Exam 1</td>
<td>20%</td>
</tr>
<tr>
<td>Exam 2</td>
<td>20%</td>
</tr>
<tr>
<td>Exam 3</td>
<td>20%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>30%</td>
</tr>
</tbody>
</table>

Students taking the course as CHEE 520 for graduate credit should speak to the instructor about how the course experience will vary for them.

Requests for incompletes (I) and withdrawal (W) must be made in accordance with University policies which are available at http://catalog.arizona.edu/2015-16/policies/grade.htm#I and http://catalog.arizona.edu/2015-16/policies/grade.htm#W respectively.

Dispute of Grade Policy: Students have 7 days from the day an assignment is graded with a score on D2L to dispute a grade on any graded item during the semester.

Syllabi should contain:

- Description of graded items and grading scheme

Note: You can determine when all your final exams are based on day/time of your classes:
http://www.registrar.arizona.edu/schedules/finals.htm
### Scheduled Topics/Activities

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Reading</th>
<th>Key Events</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aug 23</td>
<td>Syllabus/Introduction; Material Balances for Reactors; Conversion</td>
<td>1.1-1.5, 2.1-2.3, 4.1-4.4</td>
<td></td>
</tr>
<tr>
<td>Aug 25</td>
<td>Continue: Material Balances for Reactors &amp; Conversion</td>
<td>1.1-1.5, 2.1-2.6, 4.1-4.4</td>
<td></td>
</tr>
<tr>
<td>Aug 30</td>
<td>Review of Thermo/Kinetics; Graphical Representation of Design Equations</td>
<td>1.1, 3.1-3.6, 2.1-2.6, 4.1-4.4</td>
<td></td>
</tr>
<tr>
<td>Sep 1</td>
<td>Continue: Graphical Representation of Design Equations; Design of Isothermal Reactors (N\textsuperscript{th} Order Kinetics)</td>
<td>2.1-2.6, 4.1-4.4</td>
<td>HW 1 Due</td>
</tr>
<tr>
<td>Sep 6</td>
<td>Reactors in Series and Introduction to Pharmacokinetics</td>
<td>2.1-2.6, 4.1-4.4</td>
<td></td>
</tr>
<tr>
<td>Sep 8</td>
<td>Continue: Reactors in Series/Parallel</td>
<td>2.1-2.6, 4.1-4.4</td>
<td>HW 2 Due</td>
</tr>
<tr>
<td>Sep 13</td>
<td>Pressure Drops in Reactors</td>
<td>4.5</td>
<td></td>
</tr>
<tr>
<td>Sep 15</td>
<td>Continue: Pressure Drops in Reactors</td>
<td>4.5</td>
<td></td>
</tr>
<tr>
<td>Sep 20</td>
<td>Unsteady Operation of CSTRs/semi-batch reactors; Data Analysis in Reactors</td>
<td>4.10, 5.1-5.7</td>
<td>HW 3 Due</td>
</tr>
<tr>
<td>Sep 22</td>
<td>Continue: Data Analysis in Reactors</td>
<td>5.1-5.7</td>
<td></td>
</tr>
<tr>
<td>Sep 27</td>
<td>Multiple Reactions</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Sep 29</td>
<td>Continue: Multiple Reactions; Review</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Oct 4</td>
<td>Exams 1</td>
<td>Exams 1</td>
<td></td>
</tr>
<tr>
<td>Oct 6</td>
<td>Review Exam 1; Continue: Multiple Reactions</td>
<td>6</td>
<td>HW 4 Due</td>
</tr>
<tr>
<td>Oct 11</td>
<td>Continue: Multiple Reactions</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Oct 13</td>
<td>Reaction Mechanisms</td>
<td>7.1</td>
<td></td>
</tr>
<tr>
<td>Oct 18</td>
<td>Continue: Reaction Mechanisms</td>
<td>7.2 - 7.3</td>
<td></td>
</tr>
<tr>
<td>Oct 20</td>
<td>Continue: Reaction Mechanisms (Enzymes)</td>
<td>7.2 - 7.3</td>
<td>HW 5 Due</td>
</tr>
<tr>
<td>Oct 25</td>
<td>Continue: Reaction Mechanisms (Enzymes); Steady State Non-Isothermal Reactor Design</td>
<td>7.2 - 7.5; 8</td>
<td></td>
</tr>
<tr>
<td>Nov 1</td>
<td>Steady State Non-Isothermal Reactor Design</td>
<td>8</td>
<td>HW 6 Due</td>
</tr>
<tr>
<td>Nov 3</td>
<td>Exams 2</td>
<td>Exams 2</td>
<td></td>
</tr>
<tr>
<td>Nov 8</td>
<td>Continue: Steady State Non-Isothermal Reactor Design</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Nov 10</td>
<td>Continue: Steady State Non-Isothermal Reactor Design</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Nov 15</td>
<td>Continue: Steady State Non-Isothermal Reactor Design</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Nov 17</td>
<td>Catalysis and Catalytic Reactors</td>
<td>10</td>
<td>HW 7 Due</td>
</tr>
<tr>
<td>Nov 22</td>
<td>Exams 3</td>
<td>Exams 3</td>
<td></td>
</tr>
<tr>
<td>Nov 24</td>
<td>No Class (Thanksgiving)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nov 29</td>
<td>Cont. Catalysis and Catalytic Reactors</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Dec 1</td>
<td>Cont. Catalysis and Catalytic Reactors</td>
<td>10</td>
<td>HW 8 Due</td>
</tr>
<tr>
<td>Dec 6</td>
<td>Review</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dec 13</td>
<td>Final Exam (08:00-10:00)</td>
<td>Final Exam</td>
<td></td>
</tr>
</tbody>
</table>

Syllabi should contain:

- Flow sheet of lecture topics, when major assignments are due, and when exams are
Syllabi should contain:

- Behavioral Policies
- Special Accommodations

**Classroom Behavior Policy**

To foster a positive learning environment, students and instructors have a shared responsibility. We want a safe, welcoming and inclusive environment where all of us feel comfortable with each other and where we can challenge ourselves to succeed. To that end, our focus is on the tasks at hand and not on extraneous activities (i.e. texting, chatting, reading a newspaper, making phone calls, web surfing, etc). Students are asked to refrain from disruptive conversations with people sitting around them during lecture. Students observed engaging in disruptive activity will be asked to cease this behavior. Those who continue to disrupt the class will be asked to leave lecture or discussion and may be reported to the Dean of Students.

**Threatening Behavior Policy**

The UA Threatening Behavior by Students Policy prohibits threats of physical harm to any member of the University community, including to one’s self. See: http://policy.arizona.edu/education-and-student-affairs/threatening-behavior-students.

**Accessibility and Accommodations**

Our goal in this classroom is that learning experiences be as accessible as possible. If you anticipate or experience physical or academic barriers based on disability, please let me know immediately so that we can discuss options. You are also welcome to contact Disability Resources (520-621-3268) to establish reasonable accommodations. For additional information on Disability Resources and reasonable accommodations, please visit http://drc.arizona.edu/.

If you have reasonable accommodations, please plan to meet with me by appointment to discuss accommodations and how my course requirements and activities may impact your ability to fully participate.

Please be aware that the accessible table and chairs in this room should remain available for students who find that standard classroom seating is not usable.

**Code of Academic Integrity**

Students are encouraged to share intellectual views and discuss freely the principles and applications of course materials. However, graded work/exercises must be the product of independent effort unless otherwise instructed. Students are expected to adhere to the UA Code of Academic Integrity as described in the UA General Catalog. See: http://deanofstudents.arizona.edu/academic-integrity/students/academic-integrity.

The University Libraries have some excellent tips for avoiding plagiarism available at: http://www.library.arizona.edu/help/tutorials/plagiarism/index.html.
Student Support Resources

When life happens, who do you turn to?

People who want to help:

• Faculty & Staff (Academic Advisors)
• Student Assistance (Dean of Students Office)
Student Conduct & Academic Integrity

• Two important University Policies
  1. Student Code of Conduct
  2. Code of Academic Integrity

• Where to find them: Dean of Students website
  http://www.deanofstudents.arizona.edu/policies-codes
100% Engagement

Wildcats. Engineers. Real World Ready.

Your UA engineering degree has meaning. We make sure you have substantive experience applying the skills employers are looking for.

For more information on the kinds of in-class and non-credit opportunities that provide the “Engaged Learning Experience” notation on your transcript, you can visit osc.arizona.edu or contact:

Heather Moore
heathermoore@email.arizona.edu
Career Engagement Coordinator
(Industrial Engineer)
Panel Discussion

**Meagan Tran**
Junior  
Biomedical Engineering

**Ryan Headley**
Sophomore  
Systems Engineering

**Caitlin Moffett**
Sophomore  
Biomedical Engineering

**Saffie Mohran**
Senior  
Biomedical Engineering

— Sunday, August 21 starting at 7 – 9PM
— McKale Center
KICK OFF YOUR SEMESTER WITH THE WEEK OF WELCOME.

Fri 19  Dean’s Welcome Cookout
       12-2pm, AME Courtyard, $15
Sat 20  Pancake Linner
       3-5pm, Old Engineering Courtyard
Sun 21  Getting Situated
       2-5pm, Old Engineering Steps
       7-9pm, McKale Center
Mon 22  First Day of Classes!
Tues 23 Women in Engineering Lunch
       11am-1pm, Old Engineering Building
Wed 24  Engineering Honors Student Reception
       5-6:30pm, Arbol de la Vida
Thurs 25 Think Tank Ice Cream Social
       4:30-5:30, ENR2 Courtyard
Fri 26  Engineering Spirit Day
       Surprise Event to be announced on
       Class of 2020 Facebook

For More Information, Visit:
engineering.arizona.edu/wow
welcome.arizona.edu

Questions? Lost? Come visit our information table in the
lobby of the Engineering Building, August 22-August 24