



*College of Engineering*

September 2004

**Hello! And welcome to the Rowan University College of Engineering!**

The faculty and staff of the Rowan University College of Engineering would like to congratulate you on beginning your first semester of college and welcome you to the College of Engineering family. We hope that the next four years will be challenging and productive, and that the Freshman Engineering Clinic will help you to get off to a good start on your academic engineering career.

The faculty and staff are here to see that you get the best possible education, which requires you to be personally pro-active. Take charge of your educational experience as you work to become a Rowan engineer.

This Handbook will help you by answering some of the questions that you might have and gives you the information that you need get answers that are not here. Please take a few minutes to look through it today and refer to it often in the future.

Thank you for choosing Rowan University and specifically for choosing our College of Engineering. We in the College look forward to working with you.

Regards,

Dr. Jennifer Kadlowec  
Coordinator  
Freshman Engineering Clinic

# **FRESHMAN ENGINEERING STUDENT HANDBOOK**

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**FRESHMAN ENGINEERING CLINIC I & FRESHMAN SEMINAR  
(0901-101-NN)  
SYLLABUS FOR FALL 2004**

Course Coordinator: Dr. J. Kadlowec

Section (NN)	Sections	Monday Instructor	Monday Room
01	M: 8:25AM – 9:15 AM T: 8:00 AM – 10:40 AM	Dr. S. Farrell	102
02	M: 8:25AM – 9:15 AM T: 8:00 AM – 10:40 AM	Dr. B. Pietrucha	304
03	M: 8:25AM – 9:15 AM T: 8:00 AM – 10:40 AM	Dr. W. Riddell	340
04	M: 8:25AM – 9:15 AM W: 8:00 AM – 10:40 AM	Dr. R. Hesketh	Auditorium
05	M: 9:50AM – 10:40 AM W: 8:00 AM – 10:40 AM	Dr. R. Krchnavek	239
06	M: 9:50AM – 10:40 AM W: 8:00AM – 10:40 AM	Dr. J. Kadlowec	309
07	M: 9:50AM – 10:40 AM W: 8:00AM – 10:40 AM	Dr. W. Riddell	Auditorium

**Engineering Clinic I Objectives**

- Introduction to the practice and profession of engineering through engineering measurements;
- Survey of fundamental concepts drawn from the four engineering disciplines;
- Introduction to team work and cooperative learning;
- Overview of problem solving;
- Development of technical communication skills in graphical, written, and oral formats;
- Introduction to the design process, and
- Introduction to safety, professionalism and ethics.

**Freshman Seminar Objectives**

- Strengthen writing and critical thinking skills through their application to a specific discipline
- Nurture library research skills within a course context
- Reinforce the value of cooperative learning
- Strengthen classroom management skills

**Required Texts & Supplies (*Available at the Rowan University Bookstore*)**

*Introduction to Engineering Design and Problem Solving 2<sup>nd</sup> ed. (REQUIRED)*  
by Eide, Jenison, Mashaw & Northup  
McGraw-Hill, ISBN 0-07-243027-3

*Freshman Engineering Clinic (REQUIRED)*  
McGraw-Hill / Primis, ISBN 0390-492140

- Large 3-ring binder for your portfolio.
- Engineering Paper for Homework: Engineer's Computation Pad Ampad Corporation
- Laboratory notebook w/ numbered pages, duplicate page sets; e.g., Boorum #09-9088.

## Computer Usage

The engineering computer skills to be applied in the course include: (i) word processing; (ii) spreadsheets; (iii) computer-aided design; (iv) symbolic programming; and (v) the use of application software. The student will become familiar with a networked PC computing environment that provides e-mail services, Internet access, and access to other campus information technology resources. For information on connecting a personal computer in your residence hall to the Rowan Network please go to web site <http://www.rowan.edu/res/>

## Lectures and Labs

This course consists of both seminar/lecture sessions (on Mondays) and laboratory sessions (on Tuesday or Wednesday, depending on your section). You will participate in three lab modules for each of the four engineering disciplines here at Rowan, for a total of twelve lab modules.

On Mondays, you will meet with your section instructor in the room shown at the beginning of this syllabus (unless otherwise directed by your section instructor). On your lab day, you will meet with one of the faculty associated with Freshman Clinic, in the rooms shown on page 8 (unless otherwise directed).

## Portfolio

You will receive handouts each week in this course (such as this syllabus). It will be beneficial for you to maintain a portfolio of these handouts and your work. This portfolio will help you to learn and review the material presented in this course.

You are required to compile a portfolio of materials for this class that you will submit at the end of the semester for a final grade. This portfolio will consist of **all** handouts given in class, lecture notes, homework problems, quizzes, copies of ALL lab reports and projects, and laboratory notebooks. These materials are required to be contained in a large 3-ring binder. The material in this portfolio should be neatly organized into sections and separated with dividers. Your portfolio will be inspected as directed by your section instructor.

## Quizzes

Unannounced quizzes may be given throughout the semester. These quizzes will begin at the start of the class period and have a duration of 5-10 minutes. No make-up quizzes will be given for unexcused absences. (See Attendance Policy section.) Unless announced otherwise, all quizzes are closed book and notes.

## Final Exam

The date and time of the final exam will is shown in the schedule on page 7. The final exam is closed book and notes. The final exam will have a duration of 2 hours.

## Grading

This course is only offered for grade credit. The grade is determined by evaluating work performed in the following areas:

Engineering Laboratory Modules (4 modules during the semester)	15% each
Monday Sessions including: Lecture Material: problem solving and engineering & measurement fundamentals Technical Communication: semester project and career activities Professionalism: ethics, safety, careers	25%
Portfolio	5%
Final Exam	10%
Total	100%

All work is due at the beginning of the class period, and should be presented in a professional manner. It is your responsibility to turn in the homework at the beginning of class without prompting from the professor. Late work will not be accepted for unexcused absences. (See Attendance Policy section.) Opportunities for extra credit (See extra credit heading) will be given throughout the semester, but no extra credit will be given after the last class period of the semester.

For each lab module, you must be present, participate, and turn in appropriate lab reports and/or homework. Each lab report will be worth 5% of your overall course grade.

Lab module grading: will be done on a scale of 0 – 100. 50% of your grade will be based on attendance and participation. If you are not present at start of lab period, you will receive an automatic 25% reduction in your lab grade for that module. If you do not show up at all for lab, but participate in lab report write up, you will receive an automatic 50% reduction in grade. If your lab module homework is turned in late, you will receive an automatic 20% reduction in grade. If the pages are not stapled together, you will receive an automatic 5% reduction in grade.

### Absolute Grading Scale

In this course we would like to create an atmosphere of positive cooperation between students. Many of the exercises in this course will require you to work in teams and you will be expected to help each other learn the material. To encourage and support cooperative learning you will be graded on an absolute grading scale as given below. The net result is that it is in your interest to help your classmates become successful engineers. You will learn through teaching others.

Letter Grade	University Point System	Percentage
A	4.0	93
A-	3.7	90
B+	3.3	87
B	3.0	83
B-	2.7	80
C+	2.3	77
C	2.0	73
C-	1.7	70
D+	1.3	67
D	1.0	63
D-	0.7	60
F	0.0	< 60

### Extra Credit

*Student and Professional Engineering Societies:* An objective of this course is to introduce the profession of engineering to you. An excellent method to gain insight into a field of engineering is to attend engineering student club and engineering professional society meetings. For approved student and professional technical meetings you will receive 1 point per meeting added to your final grade, up to a total of 3 points during the semester. To obtain credit for attending a student meeting you must complete a section of the **Extra Credit Form** (included in this Handbook) and obtain a signature from the faculty member in attendance. To expand your knowledge of all engineering fields, you are encouraged to attend meetings of engineering clubs outside of your chosen engineering discipline. Check your e-mail and bulletin boards in Rowan Hall to find out about meetings.

## **Professionalism**

You will be graded on your professionalism in this course. Many people including your fellow employees, community and family rely on your professional decisions and actions. Your work should place the highest value on safety. In addition, engineers are expected to consider the ethical and environmental consequences of their actions. In seeking internships and fulltime employment, employers will ask professors their opinion of not only your excellence in engineering, but also your ability to make engineering decisions that are safe, ethical and environmentally responsible. The practice of professionalism will be divided into the three areas of safety, attendance, and ethics.

## **Safety**

Safety is of critical importance; it will be discussed numerous times throughout this course and in your later engineering courses. You will receive rules and guidelines that must be followed. Failure to follow safe laboratory practices can lead to accidents that can endanger you and other students. Your grade will be reduced if you fail to follow proper safety procedures.

## **Attendance Policy**

Attendance is required. Attendance will count toward your final grade. An indirect grade of attendance will be given in all teamwork exercises. It is to your advantage to attend this class, since a substantial amount of material is presented for which no texts are available and many of the laboratories and in-class exercises will be conducted in teams. In addition to classes, you are expected to attend all scheduled team meetings.

Although arriving late for class can occur, a habitual practice of this is not professional. You will only be given credit for attendance in class if you are *present at the start* of the class period. If you know that you will be absent from class for a valid reason, obtain approval from your instructor 24 hours before the class period. The only exception to this rule is a medical emergency.

## **Academic and Work Conduct:**

Your ability to work effectively with your coworkers (classmates) and team leaders and managers is being formulated through your university experience. If you contribute creatively and effectively to the workload of your team in homework and laboratory assignments, and studying for quizzes and the final exam, then industry will actively seek you as an employee. If you are careless in your work, no company will want to hire you.

**The policy in this class in matters of academic misconduct will follow that stated in *Rowan University Student Handbook* and the Dean of Students web page (<http://www.rowan.edu/studentaffairs/deanstu/policies/>). Any student cheating in this class will receive a grade of F for the course. If another student is involved in the offense knowingly, he or she will receive the same penalty.**

**FRESHMAN CLINIC I**  
Fall 2004

**SEMESTER SCHEDULE**

<b>WEEK #</b>	<b>MONDAY</b>	<b>TUESDAY (Sections 1, 2, 3)</b>	<b>WEDNESDAY (Sections 4, 5, 6, 7)</b>
<b>WEEK 0</b>			9/1 <i>First Day of Classes</i> Auditorium – Welcome and Introduction to Rowan Engineering
<b>WEEK 1</b>	9/6 LABOR DAY (no class)	9/7 Auditorium – Welcome and Introduction to Rowan Engineering, getting to know you	9/8 Auditorium - getting to know you
<b>WEEK 2</b>	9/13 SECTIONS	9/14 MODULE	9/15 MODULE
<b>WEEK 3</b>	9/20 SECTIONS	9/21 MODULE	9/22 MODULE
<b>WEEK 4</b>	9/27 SECTIONS Last ½ hr – survey in auditorium	9/28 MODULE	9/29 MODULE
<b>WEEK 5</b>	10/4 SECTIONS	10/5 MODULE	10/6 MODULE
<b>WEEK 6</b>	10/11 SECTIONS	10/12 MODULE	10/13 MODULE
<b>WEEK 7</b>	10/18 SECTIONS	10/19 MODULE	10/20 MODULE <i>(Q2 begins)</i>
<b>WEEK 8</b>	10/25 SECTIONS	10/26 MODULE	10/27 MODULE
<b>WEEK 9</b>	11/1 SECTIONS	11/2 MODULE	11/3 MODULE
<b>WEEK 10</b>	11/8 SECTIONS	11/9 MODULE	11/10 MODULE
<b>WEEK 11</b>	11/15 SECTIONS	11/16 MODULE	11/17 MODULE
<b>WEEK 12</b>	11/22 SECTIONS	11/23 MODULE	11/24 MODULE
<b>WEEK 13</b>	11/29 SECTIONS	11/30 MODULE	12/1 MODULE
<b>WEEK 14</b>	12/6 SECTIONS	12/7 PRESENTATIONS	12/8 PRESENTATIONS
<b>WEEK 15</b>	12/13 Finals Prep – Auditorium		
<b>WEEK 16</b>	12/20 <b>FINAL EXAM</b>		

## MODULE SCHEDULE

Week	Tuesday			Wednesday			
	Section 1	Section 2	Section 3	Section 4	Section 5	Section 6	Section 7
0	NO CLASS			Auditorium			
1	Auditorium			Auditorium			
2	ME-1	ChE-1	ECE-1	ME-1	ChE-1	ECE-1	CEE-1
3	ME-2	ChE-2	ECE-2	ME-2	ChE-2	ECE-2	CEE-2
4	ME-3	ChE-3	ECE-3	ME-3	ChE-3	ECE-3	CEE-3
5	ChE-1	ME-1	CEE-1	ChE-1	ME-1	CEE-1	ECE-1
6	ChE-2	ME-2	CEE-2	ChE-2	ME-2	CEE-2	ECE-2
7	ChE-3	ME-3	CEE-3	ChE-3	ME-3	CEE-3	ECE-3
8	ECE-1	CEE-1	ChE-1	ECE-1	CEE-1	ChE-1	ME-1
9	ECE-2	CEE-2	ChE-2	ECE-2	CEE-2	ChE-2	ME-2
10	ECE-3	CEE-3	ChE-3	ECE-3	CEE-3	ChE-3	ME-3
11	CEE-1	ECE-1	ME-1	CEE-1	ECE-1	ME-1	ChE-1
12	CEE-2	ECE-2	ME-2	CEE-2	ECE-2	ME-2	ChE-2
13	CEE-3	ECE-3	ME-3	CEE-3	ECE-3	ME-3	ChE-3
14	FINAL PRESENTATIONS						

## MODULES

Discipline	Modules	Engineering Measurements & Principles	Meeting Room
Chemical Engineering (ChE)	Drug Delivery	Concentration, time, reaction rates	RH 340
	Hands on the Human Body	Pressure, energy, power, flow rates, oxygen consumption rates	
	Food Processing: Chocolate	Mass, density, thickness, time, taste	
Civil and Environmental Engineering (CEE)	Hydropower	Mass, time, flow, force, work, power	RH 309
	Beams & Bridges	Mass, displacement, stress, strain	
	Water Quality	Temperature, depth, distance, oxygen concentration	
Electrical and Computer Engineering (ECE)	Solar Power	Luminance, voltage, current	RH 204
	Introduction to MATLAB	Calculate & plot shape of suspension bridge cables	
	Digital Counter	Circuits, digital measurements	
Mechanical Engineering (ME)	Robots – Mechanisms	Distance, time, velocity, gear ratios	RH 146 <i>(Machine shop)</i>
	Robots – Programming	Control systems	
	Graphics – Solid Works	Distance measurement, engineering drawings	



## ROWAN ENGINEERING HOMEWORK FORMAT

All homework problems, unless otherwise directed by your instructor, should follow the Rowan Engineering Format. This format is used for most professional engineering work. Unless otherwise directed by your instructor, you should use engineering paper or the equivalent for all homework assignments. Write only on the front side of the paper (the dark green grid should be on the back).

Please refer to the example on the next page.

- 1) **Headers:** The five boxes at the top of each sheet of engineering paper that you use for a homework assignment should contain the following information from left to right:
  - a) Put the staple (which is the required homework binder) in the first (small) box
  - b) Print your full name in the second (large) box. *If this is a team homework, then print the team leaders name in the fourth box and the names of each participating team member below this box.*
  - c) Print the course and section number in the third (large) box
  - d) Print the date that the assignment was completed in the fourth (large) box.
  - e) Print the page number / total number of pages in the fifth (small) box
- 2) **Writing Mechanics:** All homework should be:
  - a) Carefully printed and not written in cursive
  - b) Printed in pencil and not in ink
  - c) Neat and clean, *i.e.* printed on the lines with no smudges or cross-outs
- 3) **Calculations:** All homework calculations should:
  - a) Include at least one complete sample for every type of calculation presented
  - b) Include all units for each term in each equation and the units must balance
  - c) Use the appropriate number of significant figures (usually three) for all numbers
  - d) Clearly indicate the final solution by boxing it in with a rectangle
- 4) **Problem Order:** Problems should be presented
  - a) In the order assigned (one, two, three, etc.)
  - b) With a new problem starting on a new page of engineering paper
  - c) With the designated problem number, from textbook or professor, under box 2.
  - d) Using only the front side of each sheet of engineering paper
- 5) **Problem Essentials:** Problem solutions should include the following items in order:
  - a) Homework problem number listed at beginning of problem
  - b) The given information - the information that will be used to solve the problem
  - c) The required information - the information or solution that we are looking for
  - d) A straight-edge diagram or diagrams that clearly illustrate the problem
  - e) The solution of the problem including all required steps and calculations
- 6) **Evaluation:** Double-check all of your calculations to make sure that:
  - a) All of your math is correct, *i.e.* you made no errors in using the calculator or computer
  - b) All of your equations are correct, *i.e.* you made no errors in manipulating equations
  - c) All of your units balance, *i.e.* you derived the correct units for the desired solution
- 7) **Computers:** Homework Assignments using Computers
  - a) Show sample calculations (with units) for each spreadsheet calculation. A printout of a spreadsheet is not sufficient because of the difficulty in inferring formulas from the numbers. Spreadsheet formulas can be printed in addition to the sample calculation using the commands: Tools, Options, View tab, click in Formulas box under Window Options.
  - b) Do not printout raw data from data acquisition experiments. A graphical presentation of this data is sufficient unless otherwise requested from the professor.

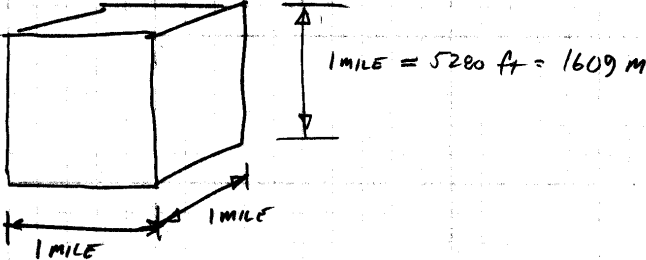
Staple	Name	Class/Section	Date	Page 2 of 5
	JOHN SMEATON	FRESHMAN CLINIC I SECTION 4	16 SEPT 2002	2/5
Problem Number	2-8 METEOROLOGISTS OFTEN REFER TO AIR MASSES IN FORECASTING THE WEATHER.			
Problem Statement	<p>TO FIND: ESTIMATE OF MASS OF 1 MILE<sup>3</sup> OF AIR, IN SLUGS &amp; Kg.</p> <p>MAKE YOUR OWN REASONABLE ASSUMPTIONS WITH RESPECT TO CONDITIONS IN THE ATMOSPHERE</p>			
Definition Sketch	<p>SOLUTION:</p> 			
Unit Conversions Shown	<p><u>SIMPLEST APPROACH:</u> ASSUME DENSITY OF AIR IS CONSTANT OVER THE 1 CUBIC MILE SEGMENT (NOT NECESSARILY A GOOD ASSUMPTION).</p> <p>IF SO, THEN <math>\rho_{AIR} = 1.22 \text{ kg/m}^3 = 0.00237 \text{ SLUGS/ft}^3</math></p> <p>AND <math>M_{AIR} = \rho \cdot V = (1.22 \frac{\text{kg}}{\text{m}^3}) (1609 \text{ m})^3 = 5.09 \times 10^9 \text{ kg}</math></p> <p>OR <math>(0.00237 \frac{\text{SLUGS}}{\text{ft}^3}) (5280 \text{ ft})^3 = 3.49 \times 10^8 \text{ SLUGS}</math></p>			
Box Around Answer	<p>SO <math>M_{AIR} \approx 5.1 \times 10^9 \text{ kg}</math>  <math>\approx 3.5 \times 10^8 \text{ SLUGS}</math> } ASSUMING CONSTANT DENSITY.</p>			
Commentary	<p>IN REALITY, DENSITY IS NOT CONSTANT (IT IS A FN OF TEMPERATURE &amp; PRESSURE, WHICH VARY W/ ELEVATION IN THE ATMOSPHERE).</p> <p>TRUE MASS IS SOMEWHAT LESS</p>			

Figure 1: Sample homework on engineering paper in proper format.

## FAQ

### **Q: Who is my advisor?**

A: Your advisor is the chairperson of your academic program or department (see faculty and staff listing for names and office numbers). If you have not chosen an engineering discipline your advisor is Dr. Steven Chin, Associate Dean.

### **Q: How do I get to see my advisor?**

A: You can make an appointment with your advisor by:

- Calling her or him and requesting an appointment.
- Calling the departmental secretary and asking for the chairperson's advising schedule.
- If Dr. Chin is your advisor see or call Ms. C. Barrett for assistance in getting an appointment.

### **Q: What if I need advising quickly and my advisor is not available?**

A: See your Monday section instructor or Dr. Kadlowec.

### **Q: Is it OK to drop a course if I am doing poorly or don't like it?**

A: Not until you have talked to your advisor about it!! The engineering curriculum is very tightly scheduled and dropping a course may cause you lots of headaches trying to catch up. There are ways to reschedule courses but you and your advisor should devise a plan for rescheduling if you need to drop something. So, PLEASE see your advisor before you drop a course.

### **Q: How do I address members of the faculty and staff?**

A: The accepted form of address in public or formal situations is Ms. LAST\_NAME for a woman or Mr. LAST\_NAME for a man. If you know that a person is a member of the faculty, then you should use either Doctor LAST\_NAME or Professor LAST\_NAME. Sometimes people use an administrative title, for instance, our deans could be addressed as Dr. Dorland or Dean Dorland and Dr. Chin or Dean Chin. This usually does not extend to the administrative title "Chair", the chairpersons should be addressed as Dr. or Prof. The technical and administrative staff in the laboratories and offices are addressed as Ms. or Mr.

The **only exception** to the above standards is when a person *specifically requests* that you call them something else. If you do not know a person's last name then ma'am or sir – even though they sound a little too formal – are appropriate. The person will usually tell you their name and appreciate your consideration.

### **Q: Is it OK to walk into a faculty-person's office if the door is open?**

A: NO. Always knock and wait to be acknowledged. The person may be in the middle of a task and not have time to talk to you – it's much less embarrassing to be asked to come back than to be chased out! If a faculty member has scheduled office hours – honor them – if you can't make those times, make an appointment!

**Q: Where can I find a stapler to staple my homework with before I turn it in?**

A: There are staplers in the study rooms on the 2<sup>nd</sup> and 3<sup>rd</sup> floors (rooms 226 and 327). Don't walk into the office of a person who is working and ask to borrow a stapler – getting your work stapled is YOUR responsibility.

**Q: Whom should I go to if I am having trouble with the computers?**

A: There are several levels of resources to use here:

- a. There are computer lab monitors in the 1<sup>st</sup> floor PC lab
- b. Try the main Rowan Information Resources Support Desk:  
<http://www.rowan.edu/ir/supportdesk/students/>
- c. Try talking to the instructor of the course that you are working on
- d. Send an email message to [support@galaxy.rowan.edu](mailto:support@galaxy.rowan.edu), and 'cc' your course instructor, if you are having difficulty with computers in the College of Engineering

**Q: How do I check my Rowan email?**

A: Use the Rowan Campus Web Portal: <http://cp.rowan.edu/>

**Q: Can I still use my old Yahoo (or AOL, Hotmail, etc.) email account?**

A: Yes, BUT – it is YOUR responsibility to set up email forwarding from your campus email address to the account you want to use. Most faculty will only send email to your Rowan-issued email address.

**Q: Where are the faculty mailboxes?**

A: The faculty all have mailboxes in Rowan Hall room 212 – let the secretaries know that you have something that you wish to leave for a certain faculty member – they will direct you.

**Q: How do I get an internship for next summer?**

A: Ms. M. Basantis is the internship coordinator. She maintains a bulletin board for internships on the 1<sup>st</sup> floor across from her office and also sends email notices to all students of available internships. Get your resume to her early and often!

## FACULTY AND STAFF DIRECTORY

Room #	Name	Dept.	Phone extension (856-256-xxxx)
<b><u>DEAN'S OFFICE</u></b>			
113	Dr. Dianne Dorland, P.E. <i>Dean</i>	Dean's Office	5301
110	Dr. Steven Chin, P.E. <i>Associate Dean</i>	Dean's Office	5301
111	Ms. Mary Fisher	Dean's Office	5331
111	Ms. Cathi Barrett, <i>secretary</i>	Dean's Office	5306
136	Ms. Melanie Basantis <i>Director of Engineering Outreach</i>	Outreach Office	5307
136	Ms. Kathy Urbano	Outreach Office	5309
<b><u>TECHNICAL STAFF</u></b>			
222	Mr. Aaron Nolan	Civil Labs	5359
222	Mr. Chuck Linderman	Mechanical Labs	5355
341	Mr. Marvin Harris	Chemical Labs	5319
222	Mr. John Zaruba	Electrical Labs	5337
324	Mr. Mike Ciocco	Computer Labs	5368
324	Mr. Mike Dorris	Computer Labs	4488
<b><u>CHEMICAL ENGINEERING</u></b>			
315	Dr. Robert P. Hesketh <i>Chairperson</i>	Chemical	5313
329	Dr. Kevin Dahm <i>Faculty Advisor for AIChE</i>	Chemical	5318
331	Dr. Stephanie Farrell	Chemical	5315
141	Dr. Zenaida Gephardt	Chemical	5314
139	Dr. Brian Levebre	Chemical	
332	Dr. James Newell	Chemical	5316
336	Dr. Stewart Slater	Chemical	5312
328	Dr. Mariano Savelski	Chemical	5317
312	Ms. Susan Patterson, Secretary	Chemical	5361
<b><u>CIVIL AND ENVIRONMENTAL ENGINEERING</u></b>			
314	Dr. Ralph Dusseau, P.E. <i>Chairperson</i>	Civil	5322
233	Dr. Douglas Cleary, P.E.	Civil	5325
335	Dr. Jess Everett, P.E. <i>Faculty Advisor for ASCE</i>	Civil	5326
333	Dr. Kauser Jahan, P.E.	Civil	5323
330	Dr. Yusuf Mehta, P.E.	Civil	5327
234	Dr. Joseph Orlins, P.E.	Civil	5328
137	Dr. Will Riddell	Civil	5348
140	Dr. Beena Sukumaran	Civil	5324
312	Ms. Charla Newland, Secretary	Civil	5321

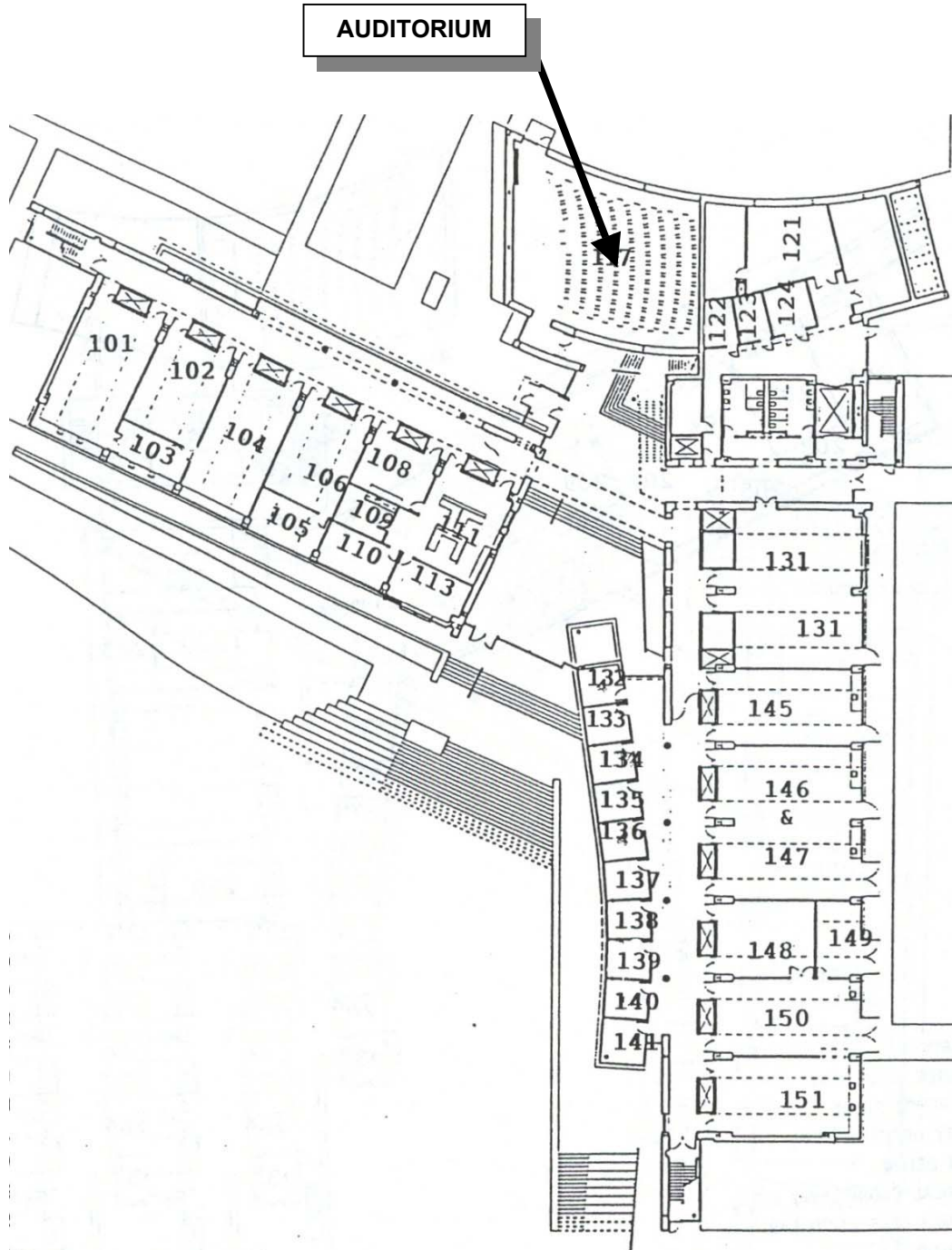
**ELECTRICAL AND COMPUTER ENGINEERING**

214	Dr. John Schmalzel, P.E. <i>Chairperson</i>	Electrical	5332
334	Dr. Linda Head	Electrical	5335
134	Dr. Peter Jansson <i>Faculty Advisor for IEEE</i>	Electrical	5373
227	Dr. Robert R. Krchnavek	Electrical	5336
228	Dr. Shreekanth Mandayam Dr. Bernie Pietrucha	Electrical Electrical	5333
136	Dr. Robi Polikar	Electrical	5372
229	Dr. Ravi R. Ramachandran	Electrical	5334
230	Dr. Gina Tang	Electrical	5339
212	Ms. Loretta Brewer, Secretary	Electrical	5362

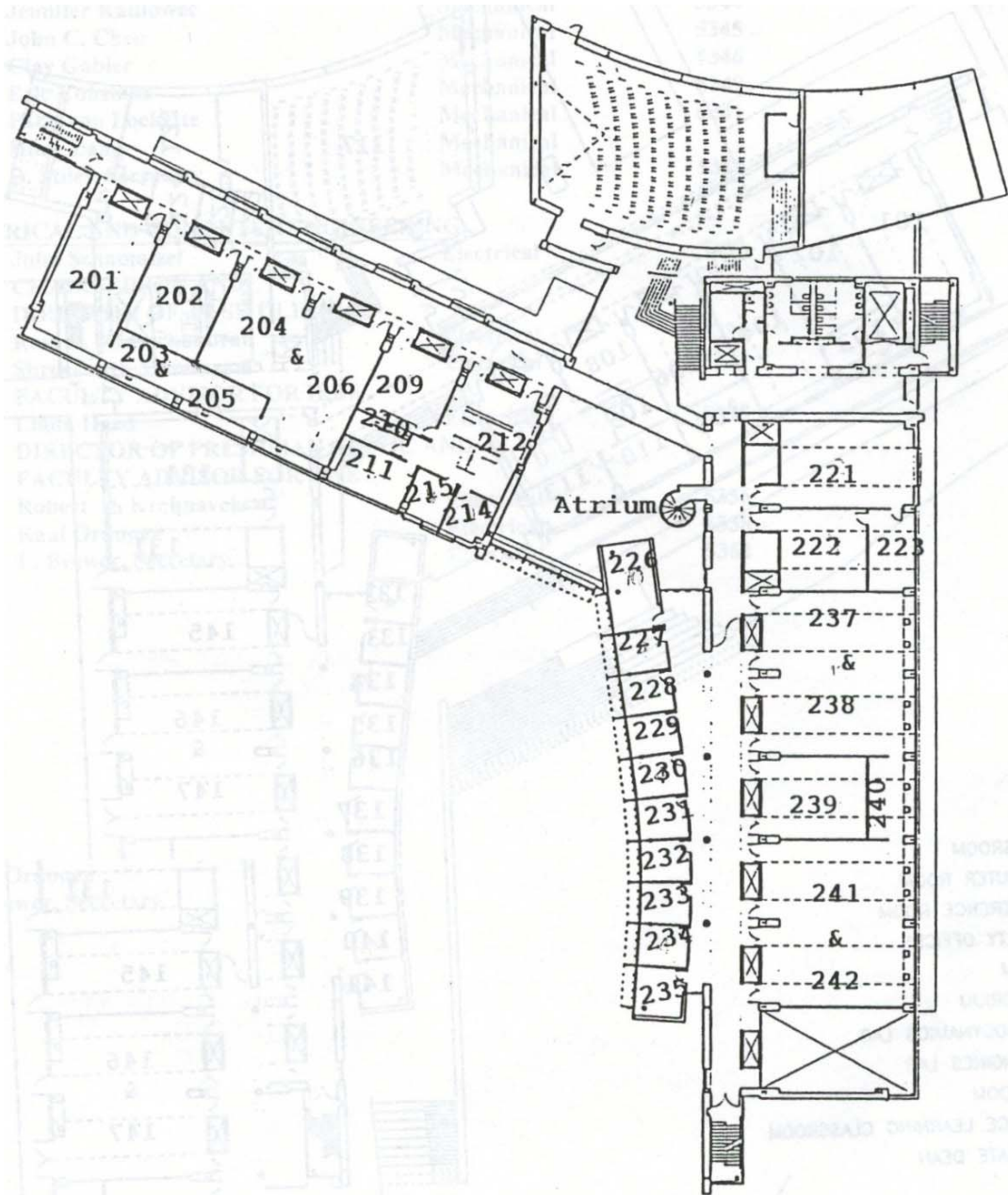
**MECHANICAL ENGINEERING**

215	Dr. John C. Chen, PE <i>Chairperson</i>	Mechanical	5345
231	Dr. T.R. Chandrupatla, PE	Mechanical	5342
138	Dr. Eric Constans <i>Faculty Advisor for SAE</i>	Mechanical	5349
135	Dr. Clay Gabler <i>Faculty Advisor for ASME</i>	Mechanical	5346
232	Dr. Jennifer Kadlowec <i>Faculty Advisor for SWE</i>	Mechanical	5344
235	Dr. Anthony J. Marchese	Mechanical	5343
132	Dr. Paris von Lockette	Mechanical	5341
133	Dr. Hong Zang	Mechanical	5347
212	Ms. Dottie Stiles, Secretary	Mechanical	5311

**ROWAN HALL**  
THE ROWAN UNIVERSITY  
COLLEGE OF ENGINEERING BUILDING  
FIRST FLOOR

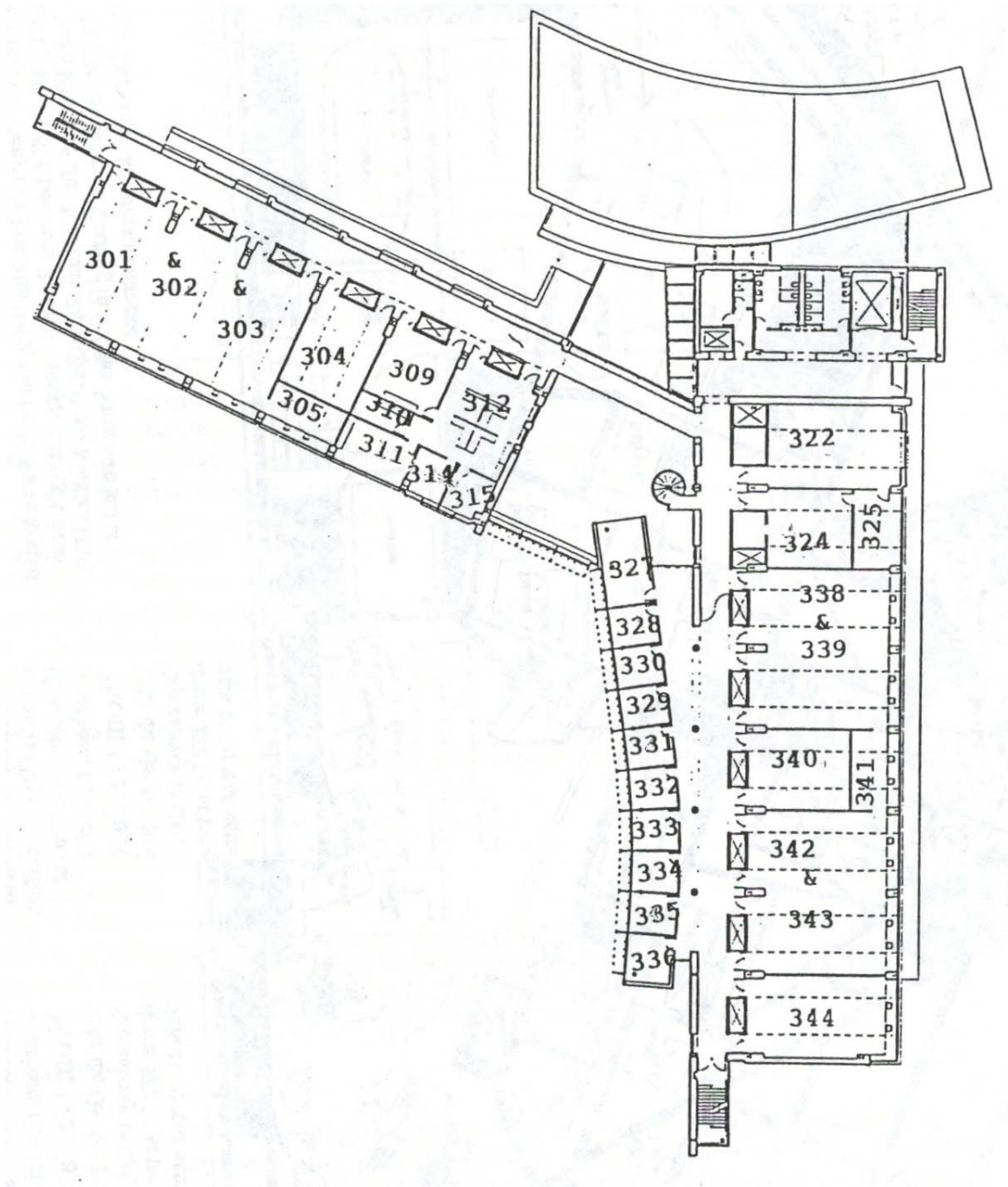


**ROWAN HALL**  
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COLLEGE OF ENGINEERING BUILDING  
SECOND FLOOR





**ROWAN HALL**  
THE ROWAN UNIVERSITY  
COLLEGE OF ENGINEERING BUILDING  
THIRD FLOOR

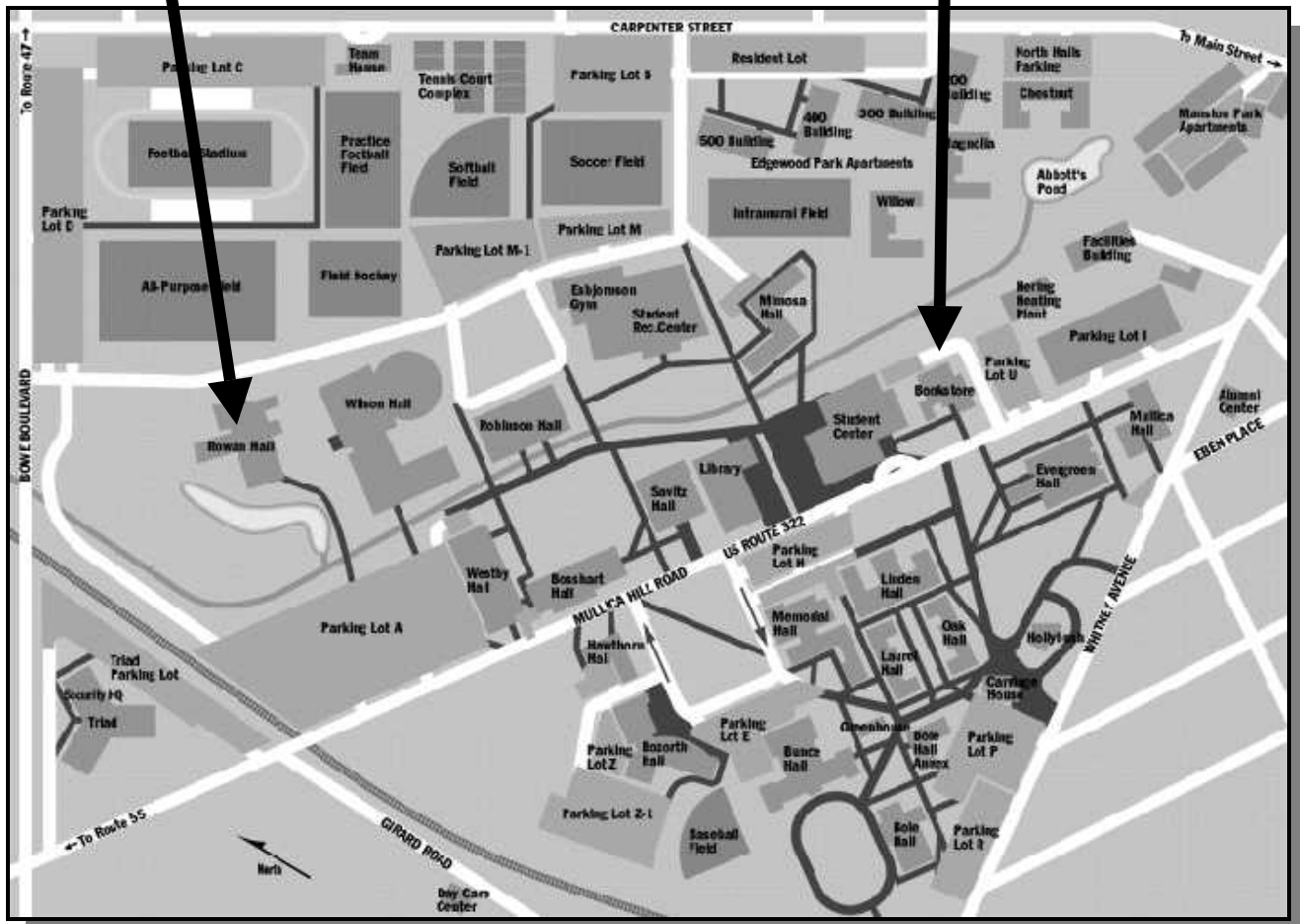


# ROWAN UNIVERSITY CAMPUS MAP

[http://www.rowan.edu/campus\\_map/index.html](http://www.rowan.edu/campus_map/index.html)

Rowan Hall  
(Engineering Building)

Bookstore



**ROWAN UNIVERSITY**  
**COLLEGE OF ENGINEERING**  
**FRESHMAN ENGINEERING CLINIC**  
EXTRA CREDIT FORM

NAME \_\_\_\_\_ SECTION \_\_\_\_\_

You can accumulate up to 3 points added to your final grade by attending technical meetings of the engineering professional societies. Use this form to document your attendance at these meeting and turn it in to your Monday session instructor at the end of the semester (or as soon as you have attended 3 meetings).

Name of Professional Society: (or other organization)
Date of Attendance:
Description of Technical Topic:
Signature of Faculty Representative
Name of Professional Society: (or other organization)
Date of Attendance:
Description of Technical Topic:
Signature of Faculty Representative
Name of Professional Society: (or other organization)
Date of Attendance:
Description of Technical Topic:
Signature of Faculty Representative