

# MA 162 Grade Calculation

Spring 2018

# The Basics

- Homework: 100 points
- Quizzes: 100 points
- Exam 1: 100 points
- Exam 2: 100 points
- Exam 3: 100 points
- Final Exam: 200 points
- Bonus: 8 points

Raw Scores								
Category / Assignment	My Scores			Class Statistics				
	Score	Max Possible	%	Average	Min	Max	St Dev	
<a href="#">Homework</a> (33)	656.26	660	99.43	594.68	139.35	659.84	116.52	
<a href="#">Quiz</a> (20)	369	400	92.25	308.35	43.00	399.00	82.65	
<a href="#">Bonus</a> (1)	2	2	100.00	1.94	0	2.00	0.31	
<a href="#">Test 1</a> (1)	100	100	100.00	80.00	0	100.00	22.24	
<a href="#">Test 2</a> (1)	84	100	84.00	64.71	0	92.00	23.16	
<a href="#">Test 3</a> (1)	92	100	92.00	64.30	0	100.00	29.34	

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This student has:  
Homework: 99  
Quiz: 92  
Exam 1: 100  
Exam 2: 84  
Exam 3: 92

# A Hypothetical Recitation Section

	Homework	Quiz	Bonus	Exam 1	Exam 2	Exam 3	Final Exam	Exam Total	Grand Total
Student_1	98	97	8	92	92	92	176	452	655
Student_2	100	100	4	92	92	92	160	436	640
Student_3	95	96	8	100	68	92	160	420	620
Student_4	80	50	8	100	92	100	184	476	614
Student_5	100	95	8	76	76	84	144	380	583
Student_6	90	80	8	76	84	84	144	388	566
Student_7	98	84	8	68	68	76	136	348	538
Student_8	85	85	8	76	68	76	128	348	525
Student_9	82	64	8	68	68	52	128	316	470
Student_10	99	79	6	36	36	44	80	196	380
Student_11	96	75	8	36	20	36	56	148	327

## Step 1: Rank by Exam Total

- The course coordinator decides the letter grade cutoffs based on just the exams (because these are independent of the TA).

- As an example, let's use the following hypothetical numbers:

A 436

A- 420

B+ 404

B 388

B- 372

C+ 356

C 332

C- 308

D+ 276

D 252

- So this hypothetical class will have
  - 3 A, 1 A-, 0 B+, 1 B, 1 B-, 0 C+, 2 C, 1 C-, 0 D+, 0 D, 2 F.
- Next, we re-rank using the Grand Total to determine who gets these grades.

	Exam 1	Exam 2	Exam 3	Final Exam	Exam Total
Student_4	100	92	100	184	476
Student_1	92	92	92	176	452
Student_2	92	92	92	160	436
Student_3	100	68	92	160	420
Student_6	76	84	84	144	388
Student_5	76	76	84	144	380
Student_7	68	68	76	136	348
Student_8	76	68	76	128	348
Student_9	68	68	52	128	316
Student_10	36	36	44	80	196
Student_11	36	20	36	56	148

Note Student\_4 has the highest exam scores but he/she is NOT guaranteed to remain at the top once homework, quizzes, and bonus points are added back in.

## Step 2: Rank by Grand Total

From previous step: 3 A, 1 A-, 0 B+, 1 B, 1 B-, 0 C+, 2 C, 1 C-, 0 D+, 0 D, 2 F

	Homework	Quiz	Bonus	Exam 1	Exam 2	Exam 3	Final Exam	Exam Total	Grand Total	Course Grade
Student_1	98	97	8	92	92	92	176	452	655	A
Student_2	100	100	4	92	92	92	160	436	640	A
Student_3	95	96	8	100	68	92	160	420	620	A
Student_4	80	50	8	100	92	100	184	476	614	A-
Student_5	100	95	8	76	76	84	144	380	583	B
Student_6	90	80	8	76	84	84	144	388	566	B-
Student_7	98	84	8	68	68	76	136	348	538	C
Student_8	85	85	8	76	68	76	128	348	525	C
Student_9	82	64	8	68	68	52	128	316	470	C-
Student_10	99	79	6	36	36	44	80	196	380	F
Student_11	96	75	8	36	20	36	56	148	327	F

Notice Student\_4 doesn't get the A even though he/she has the highest exam scores because other students have much higher homework and quiz scores.

(similar situation with Student\_5 and Student\_6)

Your exams will primarily determine what grade you get.

Homework/quizzes can potentially move grade up/down by a third of a letter grade