

# CS 4710-001 Artificial Intelligence - Fall 2015

ENGR (20207)

INSTRUCTORS: Floryan, Mark (mrf8t)

Respondents: 23 / Enrollment: 54

Summary: CS 4710-001 Artificial Intelligence - Fall 2015 (20207)	
<b>Overall Course Rating</b>  CS-4710-001 Mean 4.22 CS-4710-001 Std Dev 0.99 CS-4710-001 Response Count 115  SEAS, 4000-level courses Mean 4.13 SEAS, 4000-level courses Std Dev 0.92 SEAS, 4000-level courses Response Count 9170	<b>Overall Instructor Rating</b>  <i>INSTRUCTOR:</i> Floryan, Mark Mean 4.35 Std Dev 0.86 Response Count 161  SEAS, 4000-level courses Mean 4.23 SEAS, 4000-level courses Std Dev 0.91 SEAS, 4000-level courses Response Count 14042

~ QUESTIONS AND DETAILS ~		~ ANSWER MATRICES ~							
<div>1. The course addressed technically rigorous subject matter consistent with the course objectives.</div> <div>~</div> <div>Question Type: Likert</div> <div>~</div> <div>contributed by Dean of the School of Engineering and Applied Science</div>	Results for CS-4710-001								
	Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
	23	4.43	0.59	11 (47.83%)	11 (47.83%)	1 (4.35%)	0 (0.00%)	0 (0.00%)	0 (0.00%)
	Results for SEAS, 4000-level courses								
	Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
1831	4.32	0.76	831 (45.39%)	786 (42.93%)	134 (7.32%)	38 (2.08%)	13 (0.71%)	29 (1.58%)	
<div>2. The instructor used methods other than/in addition to traditional lectures (for example, active learning, in-class problems, collaborative learning, in-class discussion) effectively in this course.</div> <div>~</div> <div>Question Type: Likert</div> <div>~</div> <div>contributed by Dean of the School of Engineering and Applied Science</div>	Results for CS-4710-001, Floryan, Mark								
	Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
	23	4.13	1.06	10 (43.48%)	9 (39.13%)	2 (8.70%)	1 (4.35%)	1 (4.35%)	0 (0.00%)
	Results for SEAS, 4000-level courses								
	Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
2014	4.18	0.97	882 (43.79%)	696 (34.56%)	206 (10.23%)	95 (4.72%)	46 (2.28%)	89 (4.42%)	
<div>3. There was a reasonable level of effort expected for the credit hours received.</div> <div>~</div> <div>Question Type: Likert</div> <div>~</div> <div>contributed by Dean of the School of Engineering and Applied Science</div>	Results for CS-4710-001								
	Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
	23	4.39	0.84	13 (56.52%)	7 (30.43%)	2 (8.70%)	1 (4.35%)	0 (0.00%)	0 (0.00%)
	Results for SEAS, 4000-level courses								
	Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
1838	4.26	0.83	798 (43.42%)	810 (44.07%)	128 (6.96%)	73 (3.97%)	18 (0.98%)	11 (0.60%)	

## ~ QUESTIONS AND DETAILS ~

## ~ ANSWER MATRICES ~

**4. The homework assignments helped me learn the subject matter.**

Question Type: Likert

contributed by Dean of the School of Engineering and Applied Science

## Results for CS-4710-001

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
23	3.91	1.35	11 (47.83%)	5 (21.74%)	3 (13.04%)	2 (8.70%)	2 (8.70%)	0 (0.00%)

## Results for SEAS, 4000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
1838	4.10	0.94	644 (35.04%)	676 (36.78%)	213 (11.59%)	90 (4.90%)	27 (1.47%)	188 (10.23%)

**5. The textbook increased my understanding of the material.**

Question Type: Likert

contributed by Dean of the School of Engineering and Applied Science

## Results for CS-4710-001

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
23	3.33	1.37	2 (8.70%)	0 (0.00%)	2 (8.70%)	2 (8.70%)	0 (0.00%)	17 (73.91%)

## Results for SEAS, 4000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
1836	3.68	1.11	251 (13.67%)	308 (16.78%)	240 (13.07%)	86 (4.68%)	44 (2.40%)	907 (49.40%)

**6. The course material was well organized and developed.**

Question Type: Likert

contributed by Dean of the School of Engineering and Applied Science

## Results for CS-4710-001, Floryan, Mark

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
23	4.30	0.93	11 (47.83%)	10 (43.48%)	1 (4.35%)	0 (0.00%)	1 (4.35%)	0 (0.00%)

## Results for SEAS, 4000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
2001	4.01	1.01	696 (34.78%)	800 (39.98%)	244 (12.19%)	138 (6.90%)	52 (2.60%)	71 (3.55%)

**7. The instructor was knowledgeable about the subject matter.**

Question Type: Likert

contributed by Dean of the School of Engineering and Applied Science

## Results for CS-4710-001, Floryan, Mark

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
23	4.65	0.49	15 (65.22%)	8 (34.78%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)

## Results for SEAS, 4000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
2010	4.53	0.68	1217 (60.55%)	654 (32.54%)	89 (4.43%)	29 (1.44%)	6 (0.30%)	15 (0.75%)

**8. The instructor was well prepared for class.**

Question Type: Likert

contributed by Dean of the School of Engineering and Applied Science

## Results for CS-4710-001, Floryan, Mark

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
23	4.30	0.82	11 (47.83%)	9 (39.13%)	2 (8.70%)	1 (4.35%)	0 (0.00%)	0 (0.00%)

## Results for SEAS, 4000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
2007	4.31	0.82	956 (47.63%)	756 (37.67%)	175 (8.72%)	53 (2.64%)	20 (1.00%)	47 (2.34%)

## ~ QUESTIONS AND DETAILS ~

## ~ ANSWER MATRICES ~

**9. I received adequate preparation from the prior courses in the curriculum to be successful in this course.**

Question Type: Likert

contributed by Dean of the School of Engineering and Applied Science

## Results for CS-4710-001

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
23	4.39	0.78	12 (52.17%)	9 (39.13%)	1 (4.35%)	1 (4.35%)	0 (0.00%)	0 (0.00%)

## Results for SEAS, 4000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
1827	4.05	0.92	611 (33.44%)	778 (42.58%)	256 (14.01%)	91 (4.98%)	30 (1.64%)	61 (3.34%)

**10. The grading policy was fair.**

Question Type: Likert

contributed by Dean of the School of Engineering and Applied Science

## Results for CS-4710-001, Floryan, Mark

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
23	4.39	0.78	12 (52.17%)	9 (39.13%)	1 (4.35%)	1 (4.35%)	0 (0.00%)	0 (0.00%)

## Results for SEAS, 4000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
2003	4.07	0.98	762 (38.04%)	762 (38.04%)	248 (12.38%)	130 (6.49%)	38 (1.90%)	63 (3.15%)

**11. The instructor responded adequately to in-class questions.**

Question Type: Likert

contributed by Dean of the School of Engineering and Applied Science

## Results for CS-4710-001, Floryan, Mark

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
23	4.39	0.94	13 (56.52%)	8 (34.78%)	1 (4.35%)	0 (0.00%)	1 (4.35%)	0 (0.00%)

## Results for SEAS, 4000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
2004	4.30	0.88	973 (48.55%)	735 (36.68%)	156 (7.78%)	73 (3.64%)	29 (1.45%)	38 (1.90%)

**12. The instructor effectively used technology in support of the learning goals for this course.**

Question Type: Likert

contributed by Dean of the School of Engineering and Applied Science

## Results for CS-4710-001, Floryan, Mark

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
23	4.27	0.94	10 (43.48%)	10 (43.48%)	1 (4.35%)	0 (0.00%)	1 (4.35%)	1 (4.35%)

## Results for SEAS, 4000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
2003	4.19	0.89	804 (40.14%)	805 (40.19%)	214 (10.68%)	64 (3.20%)	34 (1.70%)	82 (4.09%)

**13. The average number of hours per week I spent outside of class preparing for this course was:**

Question Type: Multiple Choice

contributed by Office of the Provost

## Results for CS-4710-001

Total	Less than 1 (NA)	1 - 3 (NA)	4 - 6 (NA)	7 - 9 (NA)	10 or more (NA)
23	0 (0.00%)	8 (34.78%)	11 (47.83%)	4 (17.39%)	0 (0.00%)

## Results for SEAS, 4000-level courses

Total	Less than 1 (NA)	1 - 3 (NA)	4 - 6 (NA)	7 - 9 (NA)	10 or more (NA)
1839	113 (6.14%)	650 (35.35%)	766 (41.65%)	238 (12.94%)	72 (3.92%)

## ~ QUESTIONS AND DETAILS ~

## ~ ANSWER MATRICES ~

**14. I learned a great deal in this course.**

Question Type: Likert

contributed by Office of the Provost

## Results for CS-4710-001

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
23	4.30	0.88	12 (52.17%)	7 (30.43%)	3 (13.04%)	1 (4.35%)	0 (0.00%)

## Results for SEAS, 4000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
1832	4.14	0.90	727 (39.68%)	781 (42.63%)	216 (11.79%)	77 (4.20%)	31 (1.69%)

**15. Overall, this was a worthwhile course.**

Question Type: Likert

contributed by Office of the Provost

## Results for CS-4710-001

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
23	4.30	0.82	11 (47.83%)	9 (39.13%)	2 (8.70%)	1 (4.35%)	0 (0.00%)

## Results for SEAS, 4000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
1835	4.14	0.96	768 (41.85%)	728 (39.67%)	201 (10.95%)	97 (5.29%)	41 (2.23%)

**16. The course's goals and requirements were defined and adhered to by the instructor.**

Question Type: Likert

contributed by Office of the Provost

## Results for CS-4710-001, Floryan, Mark

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
23	4.35	0.88	11 (47.83%)	11 (47.83%)	0 (0.00%)	0 (0.00%)	1 (4.35%)

## Results for SEAS, 4000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
2005	4.29	0.76	856 (42.69%)	944 (47.08%)	148 (7.38%)	41 (2.04%)	16 (0.80%)

**17. The instructor was approachable and made himself/herself available to students outside the classroom.**

Question Type: Likert

contributed by Office of the Provost

## Results for CS-4710-001, Floryan, Mark

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
23	4.43	0.66	12 (52.17%)	9 (39.13%)	2 (8.70%)	0 (0.00%)	0 (0.00%)

## Results for SEAS, 4000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
2004	4.36	0.82	1050 (52.40%)	718 (35.83%)	168 (8.38%)	47 (2.35%)	21 (1.05%)

**18. Overall, the instructor was an effective teacher.**

Question Type: Likert

contributed by Office of the Provost

## Results for CS-4710-001, Floryan, Mark

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
23	4.48	0.79	14 (60.87%)	7 (30.43%)	1 (4.35%)	1 (4.35%)	0 (0.00%)

## Results for SEAS, 4000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
2013	4.21	0.93	929 (46.15%)	745 (37.01%)	221 (10.98%)	78 (3.87%)	40 (1.99%)

## ~ QUESTIONS AND DETAILS ~

## ~ ANSWER MATRICES ~

**19. Please make any overall comments or observations about this course:**~  
Question Type: Short Answer~  
contributed by Office of the Provost

## Results for CS-4710-001

Total	Individual Answers
10	See below for Individual Results

Didn't like the experimental style of the homework particularly, especially ones with little to know prior in-class discussion of appropriate methods / algorithms.

I really enjoyed this course!

Professor Floryan is a great teacher. There was a fair amount of work for an elective, but the homework assignments were definitely helpful.

Professor Floryan is fantastic - very approachable, funny, knowledgable, and he cares that students feel comfortable with the material (as indicated by his prompting for questions when students appear to be extremely quiet). The course was really interesting and fun too! However, I do feel that there were a few things that could be improved. 1) Having a syllabus/schedule that outlined how the course would progress (beyond just the wiki post) would have been helpful, but I do understand that syllabi do not fit into every professor's lesson plans/teaching style. 2) The course description could be a bit more explicit about the mathematical background recommended for the course. An example addendum could be, "Knowledge of Partial Integrals, Linear Algebra (matrix multiplication), and statistics are highly recommended." After all, it is possible to take CS 2150 having not taken Calculus, Linear Algebra, or Statistics.

I feel like we covered a lot of topics but somehow I didn't learn much. I felt like we often got to equations and just glossed over them /left understanding at the intuitive level. Also, I think the somewhat free form homeworks were interesting but made it too easy to opt out of implementing any of the interesting algorithms. I would have liked them to have been a way for me to get hands on interaction w/ the algs but mostly I just made up some random intuition based approach to the problems and then spend most of the time trying to bs a report about how it was interesting or a good idea even though lowkey it was pretty obviously terrible. I understand that's on me for not doing something harder but I've got other things to do. If some guidance was given about doing more complicated things I think it would have benefitted everyone.

No complaints except the time slot. Why can't I seem to get there by 9am every time? Third year is getting to me man.

It would be nice if the slide sets weren't pdfs of images because they took a really long time to load and were very very long and so it was hard to navigate to what I needed to look at.

Professor Floryan is always wonderful and this class was no exception. The course material was challenging but interesting and Floryan made it fair and approachable.

Great course!

This course was disappointing. Lots of material was covered but in little depth. The programming assignments were good except for HW4, but I don't feel like I got much practice implementing many algorithms. I think this course would be better if it had alternating coding and written homeworks (e.g. practice with formulas and dummy examples and high level thinking) every week like OS this semester to offer more practice and feedback. Many classes we finished early, so I think more depth could be added to the lectures.