

Portfolio for

Wanberg, John J

Industrial Design, Full Professor

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Annotated Portfolio Curriculum Vitae

Wanberg, John J
[jwanberg-1.jpg](#)
Industrial Design
Full Professor

Education

MSD, Industrial Design, Arizona State University, Tempe, AZ. (2005).

Dissertation/Thesis Title: Understanding Customization: A Case Study in Car Customization

BFA, Industrial Design Major, Japanese Minor, Brigham Young University, Provo, UT. (2000).

Employment

Full Professor, Metropolitan State University of Denver. (August 2016 - Present).

Associate Professor, Metropolitan State University of Denver. (August 2012 - August 2016).

TEACHING FIELD AND ASSIGNMENTS

Term	Course Number - Section	Course Name	Delivery Mode	Census Enrollment	UCD/ CCD/Meritus Enrollment	Credit Hours
Fall 2020	IND 3660 001	Computer Aided Modeling	Lecture/Lab oratory	26	0	3
Fall 2020	IND 3400 001	Product Usability and Ergo	Lecture/Lab oratory	18	0	3
Fall 2020	IND 4460 001	Professional ID Studio	Lecture/Lab oratory	8	0	4
Summer 2020	IND 2810 001	Tech & Design: Global Perspect	On-Line	8	0	3
Summer 2020	IND 1450 001	Tech Drawing & CAD	Lecture/Lab oratory	13	0	3
Spring 2020	IND 3660 001	Computer Aided Modeling	Lecture/Lab oratory	19	0	3
Spring 2020	IND 3400 001	Product Usability and Ergo	Lecture/Lab oratory	20	0	3
Spring 2020	IND 4460 001	Professional ID Studio	Lecture/Lab oratory	21	0	4
Spring 2020	IND 2810 001	Tech & Design: Global Perspect	On-Line	12	0	3
Fall 2019	IND 3660 001	Computer Aided Modeling	Lecture/Lab oratory	23	0	3
Fall 2019	IND 1000 003	Intro to Industrial Design	Hybrid (Part Classroom/ Part On-Line)	12	0	1
Fall 2019	IND 3400 001	Product Usability and Ergo	Lecture/Lab oratory	23	0	3

Fall 2019	IND 4460 001	Professional ID Studio	Lecture/Lab oratory	15	0	4
Summer 2019	IND 298I 001	Composite Materials Spcl Stdy	Lecture/Lab oratory	1	0	1
Summer 2019	IND 2810 001	Tech & Design: Global Perspect	On-Line	8	0	3
Summer 2019	IND 1450 001	Tech Drawing & CAD	Lecture/Lab oratory	12	0	3
Spring 2019	IND 3660 001	Computer Aided Modeling	Lecture/Lab oratory	19	0	3
Spring 2019	IND 1000 001	Intro to Industrial Design	Hybrid (Part Classroom/ Part On- Line)	28	0	1
Spring 2019	IND 3400 001	Product Usability and Ergo	Lecture/Lab oratory	15	0	3
Spring 2019	IND 4460 001	Professional ID Studio	Lecture/Lab oratory	11	0	4
Fall 2018	IND 3660 001	Computer Aided Modeling	Lecture/Lab oratory	21	0	3
Fall 2018	IND 3400 001	Product Usability and Ergo	Lecture/Lab oratory	20	0	3
Fall 2018	IND 4460 001	Professional ID Studio	Lecture/Lab oratory	17	0	4
Spring 2018	IND 298C 001	Composite Project Development	Lecture/Lab oratory	1	0	3
Spring 2018	IND 3100 001	Composites: Matrils & Fab	Lecture/Lab oratory	10	0	3
Spring 2018	IND 3660 001	Computer Aided Modeling	Lecture/Lab oratory	17	0	3
Spring 2018	IND 4460 001	Professional ID Studio	Lecture/Lab oratory	14	0	4
Spring 2018	IND 2810 002	Tech & Design: Global Perspect	On-Line	16	0	3
Fall 2017	IND 3660 001	Computer Aided Modeling	Lecture/Lab oratory	21	0	3
Fall 2017	IND 4460 001	Professional ID Studio	Lecture/Lab oratory	12	0	4
Fall 2017	IND 1450 001	Tech Drawing & CAD	Lecture/Lab oratory	21	0	3
Summer 2017	IND 2810 001	Tech & Design: Global Perspect	On-Line	17	0	3
Spring 2017	IND 3660 001	Computer Aided Modeling	Lecture/Lab oratory	22	0	3
Spring 2017	IND 1470 001	Design Drawing Techniques	Lecture/Lab oratory	17	0	3
Spring 2017	IND 2830 001	Manufctrng Mtrls & Processes	Lecture	23	0	3
Spring 2017	IND 1130 002	Plastics: Matrils & Fabrication	Lecture/Lab oratory	20	0	3
Fall 2016	IND 2450 001	Beginning ID Studio	Lecture/Lab oratory	20	0	4
Fall 2016	IND 3660 001	Computer Aided Modeling	Lecture/Lab oratory	23	0	3

Fall 2016	IND 2830 001	Manufctng Mtrls & Processes	Lecture	23	0	3
Summer 2016	IND 4960 001	Professional Internship	External Laboratory	5	0	3
Spring 2016	IND 4450 001	Adv Industrial Design Studio	Lecture/Lab oratory	16	0	4
Spring 2016	IND 3100 001	Composites: Matrils & Fab	Lecture/Lab oratory	7	0	3
Spring 2016	IND 3660 001	Computer Aided Modeling	Lecture/Lab oratory	21	0	3
Spring 2016	IND 4960 001	Professional Internship	External Laboratory	10	0	3
Fall 2015	IND 4450 001	Adv Industrial Design Studio	Lecture/Lab oratory	17	0	4
Fall 2015	IND 3660 001	Computer Aided Modeling	Lecture/Lab oratory	22	0	3
Fall 2015	IND 1130 001	Plastics: Matrils & Fabrication	Lecture/Lab oratory	16	1	3
Fall 2015	IND 4960 001	Professional Internship	External Laboratory	8	0	3

Scholarship, Creative Activities

Publications

Editor-Reviewed Books

Wanberg, J. J. (2018). Composite Materials Fabrication Bible. Stillwater, MN: Wolfgang.

Refereed Journal Articles

Caston, M., Wanberg, J. J., Berthold, D. (2019). Human-Centric Alternative Vehicle Design Educational Research with Anthropometric Data. *Ergonomics in Design: The Quarterly of Human Factors Applications*, 27(3), 24-29.

[HUMAN-CENTRIC ALTERNATIVE VEHICLE DESIGN_final-1-2.pdf](#)

Refereed Conference Proceedings

Caston, M., Wanberg, J. J., Campos-Palomino, M. (2015). Industrial Design Student Perspectives on Blended Learning and Learning Styles: Best Practices to Prepare Students for Success. (1st ed., vol. 1). Journal of Teaching and Learning Systems. <http://msudenver.edu/tlts/openaccessarticles/>

This paper has been published in the conference proceedings of the Teaching and Learning with Technology Symposium and in the new Journal of Teaching and Learning Systems (JTLS). The journal website is being redeveloped and will go live by the close of the Spring 2017 semester. The paper will appear on the new Journal website at that time.

The use of digital learning tools within higher education is steadily increasing to include offering courses entirely online which were previously taught in the traditional classroom setting. This movement towards integrating technology into the class structure provides new ways for students to engage with course material. As a trade-off, students have fewer opportunities, overall, for face-to-face learning which is an integral component of the traditional classroom learning environment. The purpose of this research is to investigate the advantages and disadvantages of using digital learning tools versus traditional learning methods, while examining students' individual learning

styles and the role they might play in the efficacy of learning and retention. Based upon this study's findings, future research is planned to further investigate, suggest, and develop best practices to include strategies specific to blended learning in which traditional learning methods are more seamlessly fused with digital learning tools.
[TLTS Paper Industrial Design Student Perspectives on Blended Learning and Learning Styles-1.pdf](#)

Presentations, Exhibits, and Performances

Non-Refereed

Presentations

Oral Presentation

Wanberg, J. J., Dortmund Faculty Exchange, "Driven Design," Dortmund University, Dortmund, Germany. (October 28, 2019).

Lecture

Wanberg, J. J., Dortmund Faculty Exchange, "MSU Denver Industrial Design: Who, Where, and Why," Dortmund University, Dortmund, Germany. (October 28, 2019).

Oral Presentation

Wanberg, J. J., Autodesk College Panel, "Axys Commuter Vehicle Ergonomics: Gear Shifter Case Study," Autodesk, Inc., 1550 Wewatta St., Denver, CO. (March 20, 2019).

[Autodesk Presentation--John Wanberg-1.pptx](#)

Demonstration

Wanberg, J. J. (Presenter), DU Composites Seminar, University of Denver, Engineering and Computer Science Building. (March 3, 2017).

[wanberg - DU composites-1.PNG](#)

Oral Presentation

Wanberg, J. J., Webb, N. (Presenter), Teaching and Learning with Technology Symposium, "3D Printing in Higher Education: How, What, and Where," Metropolitan State University of Denver and the eLearning Consortium of Colorado, Metropolitan State University of Denver, Student Success Building. (October 7, 2016). [http://www.msudenver.edu/tlts/3D Printing in Higher Education \(Final Presentation\)-1.pptx](http://www.msudenver.edu/tlts/3D%20Printing%20in%20Higher%20Education%20(Final%20Presentation)-1.pptx)

Contracts, Grants and Sponsored Research

Research in Progress

"Portable Alternative Vehicle Design and Prototyping" (On-Going)

"Recumbent Bicycle Ergonomics and Biomechanics" (On-Going)

"Ultralight Aircraft Airframe and Ergonomics Research" (On-Going)

"Prototype Composite Materials Fabrication Methods" (Writing Results)

Faculty Development Activities Attended

Webinar, "The Mystery and Magic of Design for Additive Manufacturing," Massachusetts Institute of Technology (MIT xPRO). (December 14, 2020).

<https://event.on24.com/wcc/r/2808324/CC497616F072A989733538FC897155FE>

Webinar, "Accelerating Multi-Discipline Design in Today's World," Design World - Webinar Series HD. (September 29, 2020).

<https://event.on24.com/wcc/r/2627817/2EC39C6BF939249BB8BEAB50957B994A>

Webinar, "Innovation in Orbit: Learnings From NASA and Space X," IDEO U - Creative Confidence Series. (September 16, 2020).

Webinar, "User Interfaces Explained," Gardner Business Media, Inc. and Mitsubishi Electric. (August 27, 2020).

<https://global.gotowebinar.com/join/5225278786209379339/616311476>

Workshop, "Autodesk Generative Design Workshop," Autodesk, Denver, Colorado, United States. (July 26, 2018).

Conference Attendance, "The Materialise Experience: Transforming 3D Printing," Materialise, Detroit, MI, United States. (June 7, 2018 - June 8, 2018).

Workshop, "Chapter Leadership Boot Camp," Experimental Aircraft Association (EAA), Broomfield, CO, United States. (January 27, 2018). <http://eaa.org>

Service

Department

Department Curriculum Committee, Committee Chair. (August 2009 - Present).

Spring Industrial Design Student Show, Event Preparation and Coordination. (2007 - Present).

Industrial Design Student Portfolio, Committee Member. (2006 - Present).

IND Faculty Search Committee, Committee Chair, 40 hours per year. (January 2018 - July 2018).

Oversight of search activities, organization of materials submitted by faculty candidates, coordination of travel, presentation, and other activities with the faculty candidates.

Recommendations for four candidates out of 16 applicants, then extended hiring offer to one faculty candidate.

AES Building Committee, Committee Member, 30 hours per year. (October 2014 - August 2017).

College

CHAS Advising Committee, Attendee, Meeting. (August 2020 - Present).

CPS Awards Committee, Committee Member. (August 2007 - Present).

CPS Curriculum Committee, Committee Member. (August 2008 - August 2020).

University

SAE Student Chapter, Faculty Advisor, 10 hours per year. (October 2019 - Present).
Faculty advisor to MSU Denver's first group of SAE (Society of Automotive Engineers) student chapter. The group is developing a mini-Baja vehicle for competitive use, based on SAE's criteria for the yearly Mini-Baja competition.

Design of Portable Camera Rig for Immersive Video, Lead Designer, 5 hours per year. (September 2019 - Present).
Assisting in the design of a camera rig that can be mounted within a variety of vehicle types (including cars, trains, or small aircraft). The rig is capable of holding a large camera for taking immersive video that will be used to showcase various aspects of MSU Denver's local environment and activities.

MSU Denver Faculty Senate, Attendee, Meeting. (May 2019 - Present).

IT Lab Advisory Committee, Committee Member. (2009 - Present).

Professional

Experimental Aircraft Association (EAA), Assistant Treasurer, Aurora, CO, United States, Local. (January 2019 - December 2019). <http://eaa.org>
Assisted the treasurer, as needed.

Experimental Aircraft Association (EAA), Officer, Secretary, Denver, CO, Local. (January 2017 - December 2018).
Keeping consistent records of meetings, disseminating meeting minutes, and counseling with the chapter officials to determine appropriate courses of action for the chapter.

Community

CCD Engineering Graphics Advisory Committee, Committee Member. (2006 - Present).

Boosting Engineering Science and Technology (B.E.S.T.), Special Awards Lead Judge, 10 hours per year, Denver, CO, United States, Regional. (October 15, 2016).
<http://www.rockymountainbest.org/>
Assisted in the dissemination of special awards scoring materials, along with collection and tabulation of these scores for the Rocky Mountain B.E.S.T. competition.

LDS Church, Ward Sunday School President, 80 hours per year, Aurora, CO, Local. (May 2015 - February 2016).

Professional Memberships

Experimental Aircraft Association. (September 2013 - Present).

Society of Automotive Engineers. (January 2008 - Present).

Consulting Position(s)

For Profit Organization, Automotion FX, Denver, CO. (April 2019 - Present).
<https://automotionfx.com/>

For Profit Organization, York Systems, Denver, CO. (May 2018 - Present).

[Finished Model 1-1-1.jpg](#)

For Profit Organization, CAMIC Design, Denver, CO. (December 5, 2013 - Present).

Previous Review Letters

Review Letters Received Using Digital Measures

Promotion

Review Level	Letter from Review Level	Faculty Response to Letter from Review Level
Department Chair	JohnWanbergRecommendatio20151116-1.pdf	
Dean	WanbergPromotion2016-1.pdf	
Provost	Wanberg IND-1.pdf	
President	Wanberg IND-2.pdf	
College Committee	Wanberg John-3.pdf	
Department Committee	RTP Wanberg-1.docx	
University/Faculty Senate Committee	Wanberg FS RTP letter-1.pdf	Response Letter to Faculty Senate RTP Committee(FINAL)-1.docx

Review Letters Prior to Using Digital Measures

Student Ratings of Instruction Post-Fall 2011 (two-question format)

Term	CRN	Course Prefix and Course Number	Question	Section Mean	Section Median	Section Standard Deviation	Section Lower Limit	Section Upper Limit	Section Prefix Mean	N / Total	Response Rate %
Fall 2020	50409	IND 3660 001	Q1 - Course as a whole	5.78	6.00	0.44	5.34	6.00	4.56	9 / 26	35%
Fall 2020	50409	IND 3660 001	Q2 - Faculty Contribution to Course	6.00	6.00	0.00	6.00	6.00	4.89	9 / 26	35%
Student Comments for 50409: Official Student Comments											
Fall 2020	51953	IND 3400 001	Q1 - Course as a whole	5.20	6.00	1.79	3.41	6.00	4.56	5 / 18	28%
Fall 2020	51953	IND 3400 001	Q2 - Faculty Contribution to Course	4.80	6.00	2.17	2.63	6.00	4.89	5 / 18	28%
Student Comments for 51953: Official Student Comments											
Fall 2020	51161	IND 4460 001	Q1 - Course as a whole	5.33	6.00	1.15	4.18	6.00	4.56	3 / 8	38%
Fall 2020	51161	IND 4460 001	Q2 - Faculty Contribution to Course	5.00	5.00	1.00	4.00	6.00	4.89	3 / 8	38%
Student Comments for 51161: Official Student Comments											
Summer 2020	40605 Online/Hybrid	IND 2810 001	Q1 - Course as a whole	4.50	5.00	1.73	2.77	6.00	4.50	4 / 8	50%
Summer 2020	40605 Online/Hybrid	IND 2810 001	Q2 - Faculty Contribution to Course	5.00	5.00	0.82	4.18	5.82	5.00	4 / 8	50%
Student Comments for 40605: Official Student Comments											
Summer 2020	41183	IND 1450 001	Q1 - Course as a whole	5.71	6.00	0.49	5.22	6.00	5.33	7 / 12	58%
Summer 2020	41183	IND 1450 001	Q2 - Faculty Contribution to Course	5.71	6.00	0.49	5.22	6.00	5.50	7 / 12	58%
Student Comments for 41183: Official Student Comments											
Spring 2020	31712	IND 3660 001	Q1 - Course	5.56	6.00	0.88	4.68	6.00	4.97	9 / 19	47%

			as a whole								
Spring 2020	31712	IND 3660 001	Q2 - Faculty Contribution to Course	5.56	6.00	0.73	4.83	6.00	5.17	9 / 19	47%
Student Comments for 31712: Official Student Comments											
Spring 2020	37608	IND 3400 001	Q1 - Course as a whole	4.80	5.00	0.92	3.88	5.72	4.97	10 / 20	50%
Spring 2020	37608	IND 3400 001	Q2 - Faculty Contribution to Course	5.50	6.00	0.71	4.79	6.00	5.17	10 / 20	50%
Student Comments for 37608: Official Student Comments											
Spring 2020	30912	IND 4460 001	Q1 - Course as a whole	4.57	5.00	1.40	3.17	5.97	4.97	7 / 21	33%
Spring 2020	30912	IND 4460 001	Q2 - Faculty Contribution to Course	5.14	5.00	0.90	4.24	6.00	5.17	7 / 21	33%
Student Comments for 30912: Official Student Comments											
Spring 2020	30911 Online/Hybrid	IND 2810 001	Q1 - Course as a whole	5.50	5.50	0.71	4.79	6.00	5.50	2 / 12	17%
Spring 2020	30911 Online/Hybrid	IND 2810 001	Q2 - Faculty Contribution to Course	5.00	5.00	0.00	5.00	5.00	5.00	2 / 12	17%
Student Comments for 30911: Official Student Comments											
Fall 2019	50865	IND 3660 001	Q1 - Course as a whole	6.00	6.00	0.00	6.00	6.00	4.97	4 / 23	17%
Fall 2019	50865	IND 3660 001	Q2 - Faculty Contribution to Course	6.00	6.00	0.00	6.00	6.00	5.13	4 / 23	17%
Student Comments for 50865: Official Student Comments											
Fall 2019	58412 Online/Hybrid	IND 1000 003	Q1 - Course as a whole	4.67	5.00	1.53	3.14	6.00	4.86	3 / 11	27%
Fall 2019	58412 Online/Hybrid	IND 1000 003	Q2 - Faculty Contribution to Course	5.67	6.00	0.58	5.09	6.00	4.99	3 / 11	27%
Student Comments for 58412: Official Student Comments											
Fall 2019	53346	IND 3400 001	Q1 - Course as a whole	5.22	6.00	1.09	4.13	6.00	4.97	9 / 23	39%

Fall 2019	53346	IND 3400 001	Q2 - Faculty Contributi on to Course	5.22	5.00	0.83	4.39	6.00	5.13	9 / 23	39%
Student Comments for 53346: Official Student Comments											
Fall 2019	51920	IND 4460 001	Q1 - Course as a whole	5.25	5.00	0.50	4.75	5.75	4.97	4 / 15	27%
Fall 2019	51920	IND 4460 001	Q2 - Faculty Contributi on to Course	5.75	6.00	0.50	5.25	6.00	5.13	4 / 15	27%
Student Comments for 51920: Official Student Comments											
Summer 2019	42182 Online/H ybrid	IND 2810 001	Q1 - Course as a whole	4.50	4.50	2.12	2.38	6.00	4.50	2 / 8	25%
Summer 2019	42182 Online/H ybrid	IND 2810 001	Q2 - Faculty Contributi on to Course	4.50	4.50	2.12	2.38	6.00	4.50	2 / 8	25%
Student Comments for 42182: Official Student Comments											
Summer 2019	43585	IND 1450 001	Q1 - Course as a whole	5.50	5.50	0.55	4.95	6.00	5.50	6 / 12	50%
Summer 2019	43585	IND 1450 001	Q2 - Faculty Contributi on to Course	5.50	5.50	0.55	4.95	6.00	5.63	6 / 12	50%
Student Comments for 43585: Official Student Comments											
Spring 2019	31712	IND 3660 001	Q1 - Course as a whole	5.50	6.00	0.62	4.88	6.00	4.95	18 / 19	95%
Spring 2019	31712	IND 3660 001	Q2 - Faculty Contributi on to Course	5.78	6.00	0.43	5.35	6.00	5.19	18 / 19	95%
Student Comments for 31712: Official Student Comments											
Spring 2019	32732 Online/H ybrid	IND 1000 001	Q1 - Course as a whole	5.23	5.00	0.73	4.50	5.96	5.31	13 / 28	46%
Spring 2019	32732 Online/H ybrid	IND 1000 001	Q2 - Faculty Contributi on to Course	5.31	5.00	0.75	4.56	6.00	5.54	13 / 28	46%
Student Comments for 32732: Official Student Comments											
Spring 2019	37608	IND 3400 001	Q1 - Course as a whole	4.80	5.00	1.30	3.50	6.00	4.95	5 / 15	33%
Spring 2019	37608	IND 3400 001	Q2 - Faculty	5.40	6.00	0.89	4.51	6.00	5.19	5 / 15	33%

			Contributi on to Course								
Student Comments for 37608: Official Student Comments											
Spring 2019	30912	IND 4460 001	Q1 - Course as a whole	6.00	6.00	0.00	6.00	6.00	4.95	1 / 11	9%
Spring 2019	30912	IND 4460 001	Q2 - Faculty Contributi on to Course	6.00	6.00	0.00	6.00	6.00	5.19	1 / 11	9%
Student Comments for 30912: Official Student Comments											
Fall 2018	50865	IND 3660 001	Q1 - Course as a whole	5.67	6.00	0.52	5.15	6.00	4.96	6 / 21	29%
Fall 2018	50865	IND 3660 001	Q2 - Faculty Contributi on to Course	5.67	6.00	0.52	5.15	6.00	5.17	6 / 21	29%
Student Comments for 50865: Official Student Comments											
Fall 2018	53346	IND 3400 001	Q1 - Course as a whole	6.00	6.00	0.00	6.00	6.00	4.96	1 / 20	5%
Fall 2018	53346	IND 3400 001	Q2 - Faculty Contributi on to Course	6.00	6.00	0.00	6.00	6.00	5.17	1 / 20	5%
Student Comments for 53346: Official Student Comments											
Fall 2018	51920	IND 4460 001	Q1 - Course as a whole	3.67	4.00	1.53	2.14	5.20	4.96	3 / 17	18%
Fall 2018	51920	IND 4460 001	Q2 - Faculty Contributi on to Course	4.67	5.00	0.58	4.09	5.25	5.17	3 / 17	18%
Student Comments for 51920: Official Student Comments											
Spring 2018	37221	IND 3100 001	Q1 - Course as a whole	6.00	6.00	0.00	6.00	6.00	5.25	3 / 10	30%
Spring 2018	37221	IND 3100 001	Q2 - Faculty Contributi on to Course	6.00	6.00	0.00	6.00	6.00	5.42	3 / 10	30%
Student Comments for 37221: Official Student Comments											
Spring 2018	31712	IND 3660 001	Q1 - Course as a whole	5.86	6.00	0.38	5.48	6.00	5.25	7 / 17	41%
Spring 2018	31712	IND 3660 001	Q2 - Faculty Contributi	5.86	6.00	0.38	5.48	6.00	5.42	7 / 17	41%

			on to Course								
Student Comments for 31712: Official Student Comments											
Spring 2018	30912	IND 4460 001	Q1 - Course as a whole	6.00	6.00	0.00	6.00	6.00	5.25	1 / 14	7%
Spring 2018	30912	IND 4460 001	Q2 - Faculty Contributi on to Course	6.00	6.00	0.00	6.00	6.00	5.42	1 / 14	7%
Student Comments for 30912: Official Student Comments											
Spring 2018	37386 Online/H ybrid	IND 2810 002	Q1 - Course as a whole	5.33	5.50	0.82	4.51	6.00	4.88	6 / 16	38%
Spring 2018	37386 Online/H ybrid	IND 2810 002	Q2 - Faculty Contributi on to Course	5.17	5.50	0.98	4.19	6.00	5.00	6 / 16	38%
Student Comments for 37386: Official Student Comments											
Fall 2017	50865	IND 3660 001	Q1 - Course as a whole	5.33	6.00	1.15	4.18	6.00	4.74	3 / 20	15%
Fall 2017	50865	IND 3660 001	Q2 - Faculty Contributi on to Course	5.67	6.00	0.58	5.09	6.00	4.96	3 / 20	15%
Student Comments for 50865: Official Student Comments											
Fall 2017	51597	IND 1450 001	Q1 - Course as a whole	5.33	5.00	0.65	4.68	5.98	5.01	12 / 21	57%
Fall 2017	51597	IND 1450 001	Q2 - Faculty Contributi on to Course	5.67	6.00	0.65	5.02	6.00	5.17	12 / 21	57%
Student Comments for 51597: Official Student Comments											
Summer 2017	42182 Online/H ybrid	IND 2810 001	Q1 - Course as a whole	3.75	4.00	2.22	1.53	5.97	3.75	4 / 17	24%
Summer 2017	42182 Online/H ybrid	IND 2810 001	Q2 - Faculty Contributi on to Course	4.75	5.00	1.26	3.49	6.00	4.75	4 / 17	24%
Student Comments for 42182: Official Student Comments											
Spring 2017	31712	IND 3660 001	Q1 - Course as a whole	5.64	6.00	0.67	4.97	6.00	5.05	11 / 22	50%
Spring 2017	31712	IND 3660 001	Q2 - Faculty Contributi on to Course	5.91	6.00	0.30	5.61	6.00	5.25	11 / 22	50%

Student Comments for 31712: Official Student Comments											
Spring 2017	31023	IND 1470 001	Q1 - Course as a whole	5.56	6.00	0.73	4.83	6.00	5.23	9 / 17	53%
Spring 2017	31023	IND 1470 001	Q2 - Faculty Contribution to Course	5.78	6.00	0.67	5.11	6.00	5.38	9 / 17	53%
Student Comments for 31023: Official Student Comments											
Spring 2017	32658	IND 2830 001	Q1 - Course as a whole	5.90	6.00	0.32	5.58	6.00	5.23	10 / 23	43%
Spring 2017	32658	IND 2830 001	Q2 - Faculty Contribution to Course	5.90	6.00	0.32	5.58	6.00	5.38	10 / 23	43%
Student Comments for 32658: Official Student Comments											
Spring 2017	32410	IND 1130 002	Q1 - Course as a whole	4.75	5.50	1.58	3.17	6.00	5.23	8 / 20	40%
Spring 2017	32410	IND 1130 002	Q2 - Faculty Contribution to Course	5.25	6.00	1.16	4.09	6.00	5.38	8 / 20	40%
Student Comments for 32410: Official Student Comments											
Fall 2016	50958	IND 2450 001	Q1 - Course as a whole	4.69	5.00	1.03	3.66	5.72	5.28	13 / 20	65%
Fall 2016	50958	IND 2450 001	Q2 - Faculty Contribution to Course	5.23	5.00	.73	4.51	5.96	5.56	13 / 20	65%
Student Comments for 50958: Official Student Comments											
Fall 2016	50961	IND 3660 001	Q1 - Course as a whole	5.57	6.00	.51	5.06	6.00	4.98	14 / 23	61%
Fall 2016	50961	IND 3660 001	Q2 - Faculty Contribution to Course	5.71	6.00	.47	5.25	6.00	5.20	14 / 23	61%
Student Comments for 50961: Official Student Comments											
Fall 2016	51084	IND 2830 001	Q1 - Course as a whole	5.53	6.00	.64	4.89	6.00	5.28	15 / 23	65%
Fall 2016	51084	IND 2830 001	Q2 - Faculty Contribution to Course	5.60	6.00	.83	4.77	6.00	5.56	15 / 23	65%
Student Comments for 51084: Official Student Comments											

Spring 2016	32411	IND 4450 001	Q1 - Course as a whole	5.33	5.00	.65	4.68	5.98	5.08	12 / 16	75%
Spring 2016	32411	IND 4450 001	Q2 - Faculty Contribution to Course	5.58	6.00	.67	4.91	6.00	5.31	12 / 16	75%
Student Comments for 32411: Official Student Comments											
Spring 2016	33405	IND 3100 001	Q1 - Course as a whole	6.00	6.00	.00	6.00	6.00	5.08	6 / 7	86%
Spring 2016	33405	IND 3100 001	Q2 - Faculty Contribution to Course	6.00	6.00	.00	6.00	6.00	5.31	6 / 7	86%
Student Comments for 33405: Official Student Comments											
Spring 2016	31712	IND 3660 001	Q1 - Course as a whole	5.50	6.00	.63	4.87	6.00	5.08	16 / 21	76%
Spring 2016	31712	IND 3660 001	Q2 - Faculty Contribution to Course	5.75	6.00	.45	5.30	6.00	5.31	16 / 21	76%
Student Comments for 31712: Official Student Comments											
Fall 2015	56648	IND 4450 001	Q1 - Course as a whole	5.21	5.00	.80	4.41	6.00	4.99	14 / 17	82%
Fall 2015	56648	IND 4450 001	Q2 - Faculty Contribution to Course	5.29	5.00	.73	4.56	6.00	5.07	14 / 17	82%
Student Comments for 56648: Official Student Comments											
Fall 2015	56527	IND 3660 001	Q1 - Course as a whole	5.80	6.00	.45	5.35	6.00	4.99	5 / 23	22%
Fall 2015	56527	IND 3660 001	Q2 - Faculty Contribution to Course	6.00	6.00	.00	6.00	6.00	5.07	5 / 23	22%
Student Comments for 56527: Official Student Comments											
Fall 2015	56522	IND 1130 001	Q1 - Course as a whole	5.36	5.00	.67	4.69	6.00	5.28	11 / 18	61%
Fall 2015	56522	IND 1130 001	Q2 - Faculty Contribution to Course	5.60	6.00	.70	4.90	6.00	5.48	10 / 18	56%
Student Comments for 56522: Official Student Comments											

Additional Materials for Review