

EE 435 Syllabus – Spring 2009
Revision 0 – 12/30/2008

<u>Lesson</u>	<u>Date</u>	<u>Text Section(s)</u>	<u>Text Pages</u>	<u>Topics</u>	<u>Assignments</u>
<u>Week 1</u>					
(05 Jan)					
1	1/5			No Class	
Lab	1/6			No Class	
2	1/7	Ch. 1	1-10	Course Introduction	
3	1/9	Ch. 2	11-48	The Image, Its Representation and Properties	
<u>Week 2</u>					
(12 Jan)					
4	1/12	Ch. 2	11-48	The Image, Its Representation and Properties	PS01
Lab	1/13			Project 1: MATLAB's Image Processing Toolbox	
5	1/14	Ch. 2	11-48	The Image, Its Representation and Properties	
6	1/16	Ch. 3.2.4-3.2.5	58-65	The 2D-FFT, Sampling	
<u>Week 3</u>					
(19 Jan)					
7	1/19			Holiday—Martin Luther King, Jr. Day	
Lab	1/20	Ch. 4	98-112	Data Structures for Image Analysis	Monday Schedule
8	1/21	Ch. 4	98-112	Data Structures for Image Analysis	PS02
9	1/23	Ch. 5	113-174	Image Pre-Processing	
<u>Week 4</u>					
(26 Jan)					
10	1/26	Ch. 5	113-174	Image Pre-Processing	
Lab	1/27			Project 2: Image Pre-Processing	
11	1/28	Ch. 5	113-174	Image Pre-Processing	PS03
12	1/30	Ch. 5	113-174	Image Pre-Processing	
<u>Week 5</u>					
(02 Feb)					
13	2/2	Ch. 6	175-256	Segmentation I	
Lab	2/3			Project 3: Segmentation	
14	2/4	Ch. 6	175-256	Segmentation I	PS04
15	2/6	Ch. 6	175-256	Segmentation I	

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<u>Week 6</u>					
(09 Feb)					
16	2/9			Review for 6-Week Exam	
Lab	2/10			Exam 1 (Take Home)	
17	2/11	Ch. 9	380-449	Object Recognition	PS05
18	2/13	Ch. 9	380-449	Object Recognition	
<u>Week 7</u>					
(16 Feb)					
19	2/16			Holiday—Presidents Day	
Lab	2/17			Project 4: Object Recognition	
20	2/18	Ch. 9	380-449	Object Recognition	
21	2/20	Ch. 9	380-449	Object Recognition	
<u>Week 8</u>					
(23 Feb)					
22	2/23	Ch. 13	657-693	Mathematical Morphology	PS06
Lab	2/24			Project 5: Morphology	
23	2/25	Ch. 13	657-693	Mathematical Morphology	
24	2/27	Ch. 16	750-810	Motion Analysis	
<u>Week 9</u>					
(02 Mar)					
25	3/2	Ch. 16	750-810	Motion Analysis	PS07
Lab	3/3			Project 6: Motion Detection/Tracking	
26	3/4	Instructor Notes		Basics of Biometrics	
27	3/6	Instructor Notes		Basics of Biometrics	
<u>Week 10</u>					
(09 Mar)					
28	3/9	Instructor Notes		Basics of Biometrics	PS08
Lab	3/10			Project 7: Biometric System Performance	
29	3/11	Instructor Notes		Basics of Biometrics	
30	3/13	Instructor Notes		Iris Recognition	
Spring Break (16 Mar-20 Mar)					
<u>Week 11</u>					
(23 Mar)					
31	3/23	Instructor Notes		Iris Recognition	PS09
Lab	3/24			Project 8: Iris Recognition	
32	3/25	Instructor Notes		Iris Recognition	
33	3/27	Instructor Notes		Exam 2 (Take Home)	

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<u>Week 12</u>					
(30 Mar)					
34	3/30	Instructor Notes		Academic Reserve Week	
Lab	3/31			Fingerprint Recognition	PS10
35	4/1	Instructor Notes		Project 9: Fingerprint Recognition	
36	4/3	Instructor Notes		Fingerprint Recognition	
				Fingerprint Recognition	
<u>Week 13</u>					
(06 Apr)					
37	4/6	Instructor Notes		Facial Recognition	PS11
Lab	4/7			Project 10: Fingerprint Recognition	
38	4/8	Instructor Notes		Facial Recognition	
39	4/10	Instructor Notes		Exam 3 (Take Home)	
<u>Week 14</u>					
(13 Apr)					
40	4/13	Instructor Notes		Facial Recognition	PS12
Lab	4/14			Final Project: Facial Recognition	
41	4/15	Instructor Notes		Thwarting Attacks/Liveness Testing	
42	4/17	Instructor Notes		Policy/Legal/Privacy Issues	
<u>Week 15</u>					
(20 Apr)					
43	4/20			Final Project Time	
Lab	4/21			Final Project Time	
44	4/22			Final Project Time	
45	4/24			Final Project Time	
<u>Week 16</u>					
(27 Apr)					
46	4/27			Final Presentations	
47	4/28			Final Presentations	