

UNIVERSITY OF WATERLOO UNDERGRADUATE UNOFFICIAL TRANSCRIPT

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Student ID: 20344528

Date Produced: May 21, 2014

Ontario Education Nbr: 249899790

Degrees Awarded

Degree: Bachelor of Applied Science

Honours Mechatronics Engineering, Co-operative Program

Confer Date: June 14, 2014

Winter 2014 4B Full-Time

Program: Mechatronics Engineering, Honours, Co-operative Program

<i>Units</i>							
<i>Course</i>	<i>Description</i>	<i>Attempt/Earn</i>	<i>Grade</i>	<i>Credit</i>	<i>InGPA</i>	<i>Desig</i>	<i>DesGrd</i>
ECE 417	Image Processing	0.50/0.50	93	Y	Y		
MTE 482	Mechatronics Engineering Project	0.50/0.50	90	Y	Y		
SYDE 372	Introduction to Pattern Recognition	0.50/0.50	77	Y	Y		
SYDE 522	Machine Intelligence	0.50/0.50	77	Y	Y		
WS 201	Images of Women in Popular Culture	0.50/0.50	71	Y	Y		
Term Avg	81.60	Term Units In Avg	2.50	Term Units Earned	2.50		
Cumulative Avg	81.73	Total Units In Avg	21.50	Total Units Earned	22.89		

Total Units Taken	21.63	Total Units Passed	21.50
		Total Transfer Units	0.00

Academic Standing: **Excellent standing**

Fall 2013 4A Full-Time

Program: Mechatronics Engineering, Honours, Co-operative Program

		<i>Units</i>							
<i>Course</i>	<i>Description</i>	<i>Attempt/Earn</i>	<i>Grade</i>	<i>Credit</i>	<i>InGPA</i>	<i>Desig</i>	<i>DesGrd</i>		
CS 343	Concurrent and Parallel Programming	0.50/0.50	88	Y	Y				
CS 456	Computer Networks	0.50/0.50	85	Y	Y				
ECE 484	Digital Control Applications	0.50/0.50	74	Y	Y				
MTE 481	Mechatronics Engineering Design Project	0.50/0.50	93	Y	Y				
RUSS 101	Elementary Russian I	0.50/0.50	94	Y	Y				
WKRPT 400	Work-term Report	0.13/0.13	65	Y	N	DRNA			
Term Avg	86.80	Term Units In Avg	2.50	Term Units Earned	2.63				
Cumulative Avg	81.75	Total Units In Avg	19.00	Total Units Earned	20.39				
Total Units Taken	19.13	Total Units Passed	19.00						
		Total Transfer Units	0.00						

Academic Standing: **Excellent standing**

Spring 2013 3B Part-Time**Co-op Work**

Program: Mechatronics Engineering, Honours, Co-operative Program

<i>Units</i>							
<i>Course</i>	<i>Description</i>	<i>Attempt/Earn</i>	<i>Grade</i>	<i>Credit</i>	<i>InGPA</i>	<i>Desig</i>	<i>DesGrd</i>
COOP 6	Co-operative Work Term		CR	N	N		
Term Avg	0.00	Term Units In Avg	0.00	Term Units Earned			0.00
Cumulative Avg	80.99	Total Units In Avg	16.50	Total Units Earned			17.76
Total Units Taken	16.63	Total Units Passed	16.50				
		Total Transfer Units	0.00				

Winter 2013 3B Full-Time

Program: Mechatronics Engineering, Honours, Co-operative Program

<i>Units</i>							
<i>Course</i>	<i>Description</i>	<i>Attempt/Earn</i>	<i>Grade</i>	<i>Credit</i>	<i>InGPA</i>	<i>Desig</i>	<i>DesGrd</i>
HRM 200	Basic Human Resources Management	0.50/0.50	86	Y	Y		
ME 351	Fluid Mechanics 1	0.50/0.50	82	Y	Y		
MSCI 261	Engineering Economics: Financial Management for Engineers	0.50/0.50	77	Y	Y		
MTE 322	Electromechanical Machine Design	0.50/0.50	73	Y	Y		
MTE 360	Automatic Control Systems	0.50/0.50	77	Y	Y		

MTE 380 Mechatronics Engineering 0.50/0.50 81 Y Y
 Design Workshop

Term Avg	79.33	Term Units In Avg	3.00	Term Units Earned	3.00
Cumulative Avg	80.99	Total Units In Avg	16.50	Total Units Earned	17.76
Total Units Taken	16.63	Total Units Passed	16.50		
		Total Transfer Units	0.00		

Academic Standing: **Good standing**

Fall 2012 3A Part-Time Co-op Work

Program: Mechatronics Engineering, Honours, Co-operative Program

		<i>Units</i>					
<i>Course</i>	<i>Description</i>	<i>Attempt/Earn</i>	<i>Grade</i>	<i>Credit</i>	<i>InGPA</i>	<i>Desig</i>	<i>DesGrd</i>
C00P 5	Co-operative Work Term		CR	N	N		
PD 6	Problem Solving	0.50/0.00	CR	N	N		
Term Avg	0.00	Term Units In Avg	0.00	Term Units Earned	0.00		
Cumulative Avg	81.35	Total Units In Avg	13.50	Total Units Earned	14.76		
Total Units Taken	13.63	Total Units Passed	13.50				
		Total Transfer Units	0.00				

Spring 2012 3A Full-Time

Program: Mechatronics Engineering, Honours, Co-operative Program

		<i>Units</i>					
<i>Course</i>	<i>Description</i>	<i>Attempt/Earn</i>	<i>Grade</i>	<i>Credit</i>	<i>InGPA</i>	<i>Desig</i>	<i>DesGrd</i>
ECE 309	Introduction to Thermodynamics and Heat Transfer	0.50/0.50	80	Y	Y		
ECE 325	Microprocessor Systems and Interfacing for Mechatronics Engineering	0.50/0.50	79	Y	Y		
ME 321	Kinematics and Dynamics of Machines	0.50/0.50	69	Y	Y		
MTE 320	Actuators & Power Electronics	0.50/0.50	85	Y	Y		
SYDE 351	Systems Models 1	0.50/0.50	68	Y	Y		
WKRPT 300	Work-term Report	0.13/0.13	65	Y	N	DRNA	
Term Avg	76.20	Term Units In Avg	2.50	Term Units Earned			2.63
Cumulative Avg	81.35	Total Units In Avg	13.50	Total Units Earned			14.76
Total Units Taken	13.63	Total Units Passed	13.50				
		Total Transfer Units	0.00				

Academic Standing: Good standing

Winter 2012 2B Part-Time

Co-op Work

Program: Mechatronics Engineering, Honours, Co-operative Program

		<i>Units</i>					
<i>Course</i>	<i>Description</i>	<i>Attempt/Earn</i>	<i>Grade</i>	<i>Credit</i>	<i>InGPA</i>	<i>Desig</i>	<i>DesGrd</i>

C00P 4	Co-operative Work Term		CR	N	N
PD 5	Project Management	0.50/0.00	CR	N	N

Term Avg	0.00	Term Units In Avg	0.00	Term Units Earned	0.00
Cumulative Avg	82.52	Total Units In Avg	11.00	Total Units Earned	12.13
Total Units Taken	11.13	Total Units Passed	11.00		
		Total Transfer Units	0.00		

Fall 2011 2B Full-Time

Program: Mechatronics Engineering, Honours, Co-operative Program

		<i>Units</i>					
<i>Course</i>	<i>Description</i>	<i>Attempt/Earn</i>	<i>Grade</i>	<i>Credit</i>	<i>InGPA</i>	<i>Desig</i>	<i>DesGrd</i>
MTE 203	Advanced Calculus	0.50/0.50	90	Y	Y		
MTE 204	Numerical Methods	0.50/0.50	87	Y	Y		
MTE 220	Sensors and Instrumentation	0.50/0.50	80	Y	Y		
MTE 241	Introduction to Computer Structures & Real-Time Systems	0.50/0.50	81	Y	Y		
SYDE 252	Linear Systems and Signals	0.50/0.50	83	Y	Y		
WKRPT 200	Work-term Report	0.13/0.13	75	Y	N	DRNA	

Term Avg	84.20	Term Units In Avg	2.50	Term Units Earned	2.63
Cumulative Avg	82.52	Total Units In Avg	11.00	Total Units Earned	12.13
Total Units Taken	11.13	Total Units Passed	11.00		

Total Transfer Units 0.00

Academic Standing: Excellent standing

Spring 2011 2A Part-Time

Co-op Work

Program: Mechatronics Engineering, Honours, Co-operative Program

Units

<i>Course</i>	<i>Description</i>	<i>Attempt/Earn</i>	<i>Grade</i>	<i>Credit</i>	<i>InGPA</i>	<i>Desig</i>	<i>DesGrd</i>
C00P 3	Co-operative Work Term		CR	N	N		
PD 3	Communication	0.50/0.00	CR	N	N		

Term Avg	0.00	Term Units In Avg	0.00	Term Units Earned	0.00
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Cumulative Avg	82.03	Total Units In Avg	8.50	Total Units Earned	9.50
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Total Units Taken	8.63	Total Units Passed	8.50
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Total Transfer Units	0.00
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Winter 2011 2A Full-Time

Program: Mechatronics Engineering, Honours, Co-operative Program

Units

<i>Course</i>	<i>Description</i>	<i>Attempt/Earn</i>	<i>Grade</i>	<i>Credit</i>	<i>InGPA</i>	<i>Desig</i>	<i>DesGrd</i>
ME 262	Introduction to Microprocessors and Digital Logic	0.50/0.50	86	Y	Y		

MTE 201	Experimental Measurement & Statistical Analysis	0.50/0.50	79	Y	Y
MTE 202	Ordinary Differential Equations	0.50/0.50	78	Y	Y
MTE 219	Mechanics of Deformable Solids	0.50/0.50	84	Y	Y
STV 100	Society, Technology and Values: Introduction	0.50/0.50	74	Y	Y
SYDE 182	Physics 2 (Dynamics)	0.50/0.50	83	Y	Y

Term Avg	80.67	Term Units In Avg	3.00	Term Units Earned	3.00
Cumulative Avg	82.03	Total Units In Avg	8.50	Total Units Earned	9.50
Total Units Taken	8.63	Total Units Passed	8.50		
		Total Transfer Units	0.00		

Academic Standing: **Excellent standing**

Fall 2010 1B Part-Time Co-op Work

Program: Mechatronics Engineering, Honours, Co-operative Program

<i>Units</i>						
<i>Course</i>	<i>Description</i>	<i>Attempt/Earn</i>	<i>Grade</i>	<i>Credit In</i>	<i>GPA</i>	<i>Desig DesGrd</i>
COOP 2	Co-operative Work Term		CR	N	N	
PDENG 25	Professional Development - Critical Analysis	0.50/0.50	CR	Y	N	
Term Avg	0.00	Term Units In Avg	0.00	Term Units Earned		0.50
Cumulative Avg	82.77	Total Units In Avg	5.50	Total Units Earned		6.50

Total Units Taken	5.63	Total Units Passed	5.50
		Total Transfer Units	0.00

Spring 2010 1B Full-Time

Program: Mechatronics Engineering, Honours, Co-operative Program

		<i>Units</i>					
<i>Course</i>	<i>Description</i>	<i>Attempt/Earn</i>	<i>Grade</i>	<i>Credit</i>	<i>InGPA</i>	<i>Desig</i>	<i>DesGrd</i>
MATH 118	Calculus 2 for Engineering	0.50/0.50	83	Y	Y		
MTE 111	Structure and Properties of Materials	0.50/0.50	84	Y	Y		
MTE 119	Statics	0.50/0.50	77	Y	Y		
MTE 120	Circuits	0.75/0.75	79	Y	Y		
MTE 140	Algorithms and Data Structures	0.50/0.50	79	Y	Y		
WKRPT 100	Work-term Report	0.13/0.00	38	N	N	SUPP	S

Term Avg	80.27	Term Units In Avg	2.75	Term Units Earned	2.75
Cumulative Avg	82.77	Total Units In Avg	5.50	Total Units Earned	6.00
Total Units Taken	5.63	Total Units Passed	5.50		
		Total Transfer Units	0.00		

Academic Standing: Promotion Granted

Winter 2010 1A Part-Time

Co-op Work

Program: Mechatronics Engineering, Honours, Co-operative Program

Units

<i>Course</i>	<i>Description</i>	<i>Attempt/Earn</i>	<i>Grade</i>	<i>Credit</i>	<i>InGPA</i>	<i>Desig</i>	<i>DesGrd</i>
COOP 1	Co-operative Work Term		CR	N	N		
PDENG 15	Professional Development	0.50/0.50	CR	Y	N		
	- Overview						

Term Avg	0.00	Term Units In Avg	0.00	Term Units Earned	0.50
Cumulative Avg	85.27	Total Units In Avg	2.75	Total Units Earned	3.25
Total Units Taken	2.75	Total Units Passed	2.75		
		Total Transfer Units	0.00		

Fall 2009 1A Full-Time

Program: Mechatronics Engineering, Honours, Co-operative Program

Units

<i>Course</i>	<i>Description</i>	<i>Attempt/Earn</i>	<i>Grade</i>	<i>Credit</i>	<i>InGPA</i>	<i>Desig</i>	<i>DesGrd</i>
CHE 102	Chemistry for Engineers	0.50/0.50	84	Y	Y		
GENE 121	Digital Computation	0.50/0.50	92	Y	Y		
MATH 115	Linear Algebra for Engineering	0.50/0.50	84	Y	Y		
MATH 116	Calculus 1 for Engineering	0.50/0.50	86	Y	Y		
MTE 100	Mechatronics Engineering	0.75/0.75	82	Y	Y		

Term Avg	85.27	Term Units In Avg	2.75	Term Units Earned	2.75
Cumulative Avg	85.27	Total Units In Avg	2.75	Total Units Earned	2.75
Total Units Taken	2.75	Total Units Passed	2.75		
		Total Transfer Units	0.00		

Academic Standing: **Excellent standing**

Non-Course Milestones

English Proficiency	Completed	September 28, 2009
Work Report 1	Completed	August 30, 2010
Work Report 2	Completed	December 30, 2011
Work Report 3	Completed	August 30, 2012
Work Report 4	Completed	December 30, 2013
Work Term 1	Completed	April 30, 2010
Work Term 2	Completed	December 30, 2010
Work Term 3	Completed	August 30, 2011
Work Term 4	Completed	April 30, 2012
Work Term 5	Completed	December 30, 2012
Work Term 6	Completed	August 30, 2013
Workplace Hazardous Materials	Completed	November 12, 2009

Scholarships & Awards

2009-2010	University of Waterloo President's Scholarship
2013-2014	Mechatronics Design Symposium Award

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