

## Creating the Fleet Maker Workshop # 15 Schedule

<b>Day 1 – Friday, April 5, 2019</b>				
<b>Time</b>	<b>Activity</b>	<b>Duration (estimate)</b>	<b>Instructor</b>	<b>Room</b>
8:00 – 9:00	Workshop Introduction and Other Information	15 min.	Dr. Tony Dean	KH125
	Pre-Workshop Survey	45 min.		KH125
9:00 – 10:00	Module 1: 3D Printing	50 min. (10 min. break)	Dr. Karina Arcaute	KH125
10:00 – 11:00	3D Printing Hands-On - Components - Loading Material - Leveling - Printing	1 hr.	Drs. Karina Arcaute, Vukica Jovanovic, Michel Audette, Dipankar Ghosh, Tony Dean	KH116
11:00 – 12:00	Module 2: Thingiverse & Cura Lulzbot – Layer Preparation Software	1 hr.	Dr. Karina Arcaute	KH125
12:00 – 1:00	LUNCH	1 hr.		
1:00 – 2:30	Module 3: CAD – Computer Aided Design	1 hr. 30 min.	Dr. Vukica Jovanovic	KH125
2:30 – 2:50	Slicing & 3D Printing Hands-On - Sending to Print - Break (10 min)	20 min. (10 min. break)	Drs. Karina Arcaute, Vukica Jovanovic, Michel Audette, Dipankar Ghosh, Tony Dean	KH116
3:00 – 4:50	Module 4: Materials and Properties, Demonstration of Mechanical Property Measurements, Effects of Print Orientation and Infill Volume on Mechanical Properties, Impact Testing of 3D Printed Materials with High-speed Imaging, Correlations of Mechanical Properties of 3D Printed Materials and Dynamic Performance	1 hr. 50 min.	Dr. Dipankar Ghosh	KH125
4:50 – 5:00	Homework Discussion	10 min.	Dr. Tony Dean	KH 125

<b>Day 2 – Saturday, April 6, 2019</b>				
<b>Time</b>	<b>Activity</b>	<b>Duration (estimate)</b>	<b>Instructor</b>	<b>Room</b>
8:00 – 8:15	Homework Discussion	15 min	Dr. Tony Dean	KH125
8:15 – 9:00	Module 5: Reverse Engineering in CAD	45 min.	Dr. Vukica Jovanovic	KH125
9:00 – 12:00	Instructor Guided CAD, Slicing and 3D Printing: Hands-On Session - Design, Slice, Print Your Own Design	3 hr.	Drs. Vukica Jovanovic Karina Arcaute, Dipankar Ghosh, Michel Audette, Tony Dean	KH 125, KH116
12:00 – 1:00	LUNCH	1 hr.		
1:00 – 1:45	Module 6: Advanced Reverse Engineering	45 min.	Dr. Michel Audette	KH125
1:45 – 4:30	Instructor Guided Advanced Reverse Engineering - Scanning in the lab - Mesh Fix - 3D Printing	2 hr. 45 min.	Drs. Michel Audette, Dipankar Ghosh, Karina Arcaute, Vukica Jovanovic, Tony Dean	KH116, KH 125
4:30 – 5:00	Post-Workshop Survey Wrap-up	30 min.	Dr. Tony Dean	KH125