

4. Students entering the department are demonstrating a lack of basic and study skills, specifically with reading comprehension and math. They are under-prepared for college-level coursework.

## Goals of the Program

Ref.	Goal	Action to be taken	Completion Date	Person assigned
	<b>Short-term</b>			
W8	Hire full time faculty	Provide Faculty Hiring Prioritization committee with application in Fall 2019.	Sept 2019	Miodrag Micic
W6	Create new certificate of achievements programs.	Process new certificate of achievements through the curriculum committee.	Fall 2019	Miodrag Micic
O3	Create Metal Injection Molding Course	Process new class through the curriculum committee.	Fall 2019	Miodrag Micic
S2	Get to know the industry trends	Join local trade shows and workshops (Plastic trade show, World Composite Expo., Mold makers Trade Fair, composite mfg show)	Fall 2019	David Li
S2	Establish activity for the students to know the local industry.	On-site Visits to the local plastic and composite company	Fall 2019	David Li
T1/ S2/ W5	To improve student's employability and to attract possible out-of-state students establish connection with out of state graduates currently working in plastics industry.	Establish plastics alumni program with out-of-state contacts	Fall 2019	Miodrag Micic
S3/ S5/ O6	Implement Design for Manufacturing (DFM)	The curriculum needs to be integrated with ENGT so that students learn how to design parts that can be fabricated. In unison,	Fall 2019	David Li

		students that start the learning process by fabricating need to learn how to design to get better wages.		
O4/ O6	Purchase electron microscope and vacuum processing equipment	Create surface microscale metrology lab by purchasing SEM microscope and vacuum accessories at PMT department which will serve ENGT, PMT, MTT and WELD departments for microscale inspections for future micro-scale engineering technology class	Fall 2020	Miodrag Micic
	<b>Mid-range</b>			
O3	Create microscopy inspection class	Process new certificate of achievements through the curriculum committee.	Fall 2020	Miodrag Micic
W4	Put all Faculty (P/T and F/T) courses on Canvas.	P/T faculty will put all of their courses on Canvas.	Fall 2020	Miodrag Micic
T1	Attend more local high school college fairs, regional advisory committee meetings, and high school class visitations..	Make at least four to five promotional visits to local high schools annually	Fall 2020	David Li
T1	Revise class scheduling.	Revise class scheduling to reduce low enrollment classes to match student available times.	Fall 2020	Miodrag Micic
W4	Prepare instructors to offer Distance Education courses.	Obtain training through CTX to become certified to teach Distance Education courses.	Fall 2020	Miodrag Micic
O2/ O3	Receive advanced Moldflow plastic flow Training.	Attend the advanced Moldflow training with Autodesk	Fall 2020	David Li
T1	Contact local high school with PLTW training courses to	Contact local high schools offering PLTW courses to explain the	Fall 2020	Miodrag Micic

	promote more students to enroll in Cerritos college	benefits of and coordinate student enrollments at Cerritos College.		
O6	Dispose of obsolete equipment and replace it with state of the art equipment	Contact local supplier to buy and replace	Fall 2020	Miodrag Micic
O2	Congress and conference visits by faculties	Attending SAMPE, AUVSI, MIM and SOLIDWORKS WORLD conferences	Fall 2021	Miodrag Micic
W3	Reinstate SAMPE student club and have students participate in SAMPE WING and SAMPE BRIDGE competition	Increase awareness of program within general student populations by re-instating composites and plastics related student clubs	Fall 2020	Miodrag Micic and David Li
O6	Purchase a BabyPlast molds for injection molding machine; plastics identification systems; NMR, FTIR, RAMAN, Ultrasounds and other inspection and metrology equipment	Purchase the equipment using available grants.	Fall 2021	Miodrag Micic
S2	Maintain contact with local plastic and composite company regarding local industry requirements and available onsite visits.	Faculty members will continue to reach out to educational advisors from local company.	Fall 2021	Miodrag Micic
O1	Create a relationship with the collision repair program on campus	Connect with the collision repair program to allow students to get a double competency	Fall 2022	Miodrag Micic
W4	Offer a Distance Education course.	Offer at least one Distance Education course.	Fall 2022	David Li
O3	Support a technology based learning	Focus the program on 3d printing and laser	Fall 2022	Miodrag Micic

	environment: Enhance prototyping capabilities	cutting based prototyping as many companies have left the state that were using manual labor. The need is today for technician that can provide limited number of prototypes.		
W2	Update the curriculum, course SLO,'s create PSLO's and align it with ISLO's	Need to bring the curriculum up to 2019 industry standards	Fall 2019	Miodrag Micic
W6	Streamline certifications to no more than 16-18 units and cross-list on curriculum appropriate ENGT and MTT classes	Need to increase students completion and graduation rate, and to align program with current industry needs and next 5 years local trends.	Fall 2019 to be submitted to Curriculum Review Committee	Miodrag Micic and Barrett Fitzgerald and David Li
W3	Increase enrollment of working professionals by offering new certificates for emerging industry needs:	Create two new certificates of achievements, Nanotechnology fabrication technician and Materials microscopy technician	Fall 2019 to be submitted to Curriculum Review Committee	Miodrag Micic

## SLO

The program does not have full time faculty dedicated to it since retirement of Terry Price in 2016. All of the classes are provided by part time faculties. Only one part time faculty, Barrett Fitzgerald have done CSLO indirect assessment for classes he teaches. The CLSO's are very high, in the range of 80-100%, as all CSLO's are very tangible, and results in a physical product of processes taught at the program. We can say that students take their SLO's home with them. One of our goal for this year is to revise course and program SLO's and to align them with institutional SLO's. Starting from Spring 2018 one full time faculty, David Li is teaching at least one class in the department. We are going to ensure that moving forward all SLO's are timely evaluated. Attached below are examples of the CSLO evaluations: