



Shih-Feng Chou

Assistant Professor

Biographical Sketch:

Dr. Shih-Feng Chou received a Ph.D. in Materials Engineering from Auburn University in 2011. He was a research associate at Thayer School of Engineering at Dartmouth College from 2012 to 2013 and a senior fellow in the Department of Bioengineering at University of Washington from 2014 to 2016. He joined the Department of Mechanical Engineering at The University of Texas at Tyler as an Assistant Professor in September 2016.

Dr. Chou offers MENG 3319 Materials Science and Manufacturing, MENG 4320 Design for Manufacturing, MENG 4322/5322 CAD/CAM, and MENG 4347/5347 Polymer Science and Engineering in the Department of Mechanical Engineering at UT Tyler.

Dr. Chou has many years of research experience in process-structure-property correlations of biomaterials. His research focuses on using advanced manufacturing techniques to fabricate functional biomaterials from natural and/or synthetic polymers that exhibit outstanding mechanical properties and biomedical performance for drug delivery and tissue engineering applications. He received the 2016 UT Tyler Academic Research Award and the 2018 UT Tyler Presidential Interdisciplinary Research Award. He has authored/coauthored more than 20 refereed Journal articles in the field of biomaterials, drug release, and tissue engineering. A complete record of Dr. Chou's publication is at [https://scholar.google.com/citations?hl=en&user=\[gP1Sv8AAAAJ\]](https://scholar.google.com/citations?hl=en&user=[gP1Sv8AAAAJ]).

Research Interest:

Dr. Chou's research interests include synthesis and characterization of functional biomaterials for drug release and tissue engineering applications. Currently he is working on the development of drug-eluting fibers that can be used for dressing materials to promote healing of chronic and/or non-healing wounds. He is also interested in fabrication of "designer surfaces" using polymeric membranes to provide anticoagulation properties for implantable biomedical devices.

Highly motivated graduate students interested in doing hands-on experiments of biomaterials in a hypothesis-driven environment are encouraged to apply with a CV to Dr. Chou's email. Undergraduate research projects are available, and interested candidates are welcome to discuss potential research opportunities with Dr. Chou.

Our research group website <https://sites.google.com/view/uttbiomater/home>.

Contact Information:

Email: schou@uttyler.edu

Telephone: (903) 566-6209

Office Number: RBN 3005