

FALL 2015 COURSES

MECH 810	Advanced Topics in Manufacturing Engineering	Jeswiet	FALL
MECH 816	~ Not Offered 2015/16 ~ Energetics and Mechanics of Locomotion	Li	FALL
MECH 821	Advanced Dynamics of Mechanical Systems	Anderson	FALL
MECH 823	Micro-Electro-Mechanical Systems (MEMS)	Lai	FALL
MECH 824	~ Not Offered 2015/16 ~ Plasticity	Jeswiet	FALL
MECH 826	Experimental Vibration and Machinery Analysis	Mechefske	FALL
MECH 828	Biomechanics of Human Gait	Deluzio	FALL
MECH 829	Tissue Mechanics	Bryant	FALL
MECH 831	Convective Heat Transfer	Oosthuizen	FALL
MECH 834	Fundamentals of Solar Energy Conversion for Heating & Cooling	Harrison	FALL
MECH 836	Radiative Heat Transfer	Birk	FALL
MECH 837	~ Not Offered 2015/16 ~ Transport & Kinetics with Application to Fuel Cells	Pharoah	FALL
MECH 840	Selected Topics in Thermal Fluids Systems	Various	FALL
MECH 842	Selected Topics in Dynamics, Manufacturing and Design	Various	FALL
MECH 843	Selected Topics in Biomechanical Engineering	Various	FALL
MECH 844	Selected Topics in Materials Engineering	Various	FALL
MECH 846	Fluid Systems Analysis	Sellens	FALL
MECH 861	Principles of Metal Forming	Pilkey	FALL
MECH 874	Functional Ceramics	Krstic	FALL
MECH 898	Master's Project +	Various	FALL
MECH 933	~ Not Offered 2015/16 ~ Computational Fluid Dynamics I	Pollard	FALL
MECH 934	Computational Fluid Dynamics II	Piomelli	FALL

MECH 935	~ Not Offered 2015/16 ~ Turbulence Simulations	Piomelli	FALL
MECH 936	~ Not Offered 2015/16 ~ Radiative Heat Transfer	Birk	FALL
MECH 940	Selected Topics in Thermal Fluid Engineering	Birk	FALL
MECH 941	Turbulent Flow	Pollard	FALL

**Note: MECH 840, 842, 843 and 844 “Topics” courses require the student to find a professor to supervise them during the course. Prior to registration, they will submit a “Study Plan” which has been agreed upon by professor and the student.

+ The Master’s Project can only be taken by MEng students and only taken once.

Winter 2016 Courses

MECH 810	Advanced Topics in Manufacturing Engineering	Jeswiet	WINTER
MECH 811	Lasers in Manufacturing Applications	Zak	WINTER
MECH 812	Corrosion and Protection of Metals	Shirkhanzadeh	WINTER
MECH 827	Biomechanics of Human Joints and Spine	Dumas	WINTER
MECH 828	Biomechanics of Human Gait	Deluzio	WINTER
MECH 830	Experimental Fluid Dynamics	Rival	WINTER
MECH 832	Combustion Dynamics	Cicarelli	WINTER
MECH 838	Civil Aviation and the Environment	Oosthuizen	WINTER
MECH 840	Selected Topics in Thermal Fluids Systems**	Various	WINTER
MECH 842	Selected Topics in Dynamics, Manufacturing & Design**	Various	WINTER
MECH 843	Selected Topics in Biomechanical Engineering**	Various	WINTER
MECH 844	Selected Topics in Materials Engineering**	Various	WINTER
MECH 847	Energy & Society	Pharoah	WINTER
MECH 848	Measurement Systems I	Sellens	WINTER

MECH 851	~ Not Offered 2015/16 ~ Materials Characterization	Daymond/ Diak/Yao	WINTER
MECH 857	Robotics	Notash	WINTER
MECH 864	Engineering Analysis	Anderson	WINTER
MECH 876	Science of Sintering and Power Processing	Krstic	WINTER
MECH 878	~ Not Offered 2015/16 ~ Dislocation Theory	Diak	WINTER
MECH 883	Nuclear Materials	Yao	WINTER
MECH 896	Professional Development for MEng Students	Surgenor	WINTER
MECH 898	Master's Project +	Various	WINTER
MECH 924	Finite Element Analysis of Non-Linear Solids	Kim	WINTER
MECH 932	Advanced Topics in Convective Heat Transfer Analysis	Oosthuizen	WINTER
MECH 9	~ Not Offered 2015/16 ~ Computational Fluid Dynamics I	Pollard	WINTER
MECH 936	~ Not Offered 2015/16 ~ Radiative Heat Transfer	Birk	WINTER

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Summer 2016 Courses

MECH 840	Selected Topics in Thermal Fluids Systems**	Various	SUMMER
MECH 842	Selected Topics in Dynamics, Manufacturing & Design**	Various	SUMMER
MECH 843	Selected Topics in Biomechanical Engineering**	Various	SUMMER
MECH 844	Selected Topics in Materials Engineering**	Various	SUMMER
MECH 894	Internship – Industry Linked (should be taken with either MECH 892, 893 or both)	Various	SUMMER
MECH 898	Master's Project +	Various	SUMMER

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Course Offerings - MASC and PhD Students Only

Course #	Course Title	Term
MECH 897/997	Graduate Seminar	Fall & Winter terms
MECH 899	Master's Thesis Research	Fall, Winter & Summer terms
MECH 999	Ph.D. Thesis Research	Fall, Winter & Summer terms

*Note: Not all courses are offered at all times due to interest and instructor availability. Please confirm with the Graduate Assistant or Course Instructor on the next offering.