SCHEDULE FOR CLASSES HELD ON RIVER CAMPUS

Goergen 108 in Goergen Hall, River Campus

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
JUNE 3 AM **Optical Thin Film Coating Technology** **Design:** **Single Layer Films** (J. Oliver) 8:30 a.m. – 12:00 noon	JUNE 4 AM **Optical Thin Film Coating Technology** **Design:** **Anti-Reflection Coatings** (J. Oliver) 8:30 a.m. – 12:00 noon	JUNE 5 AM **Optical Thin Film Coating Technology** **Design:** **High-Reflector Coatings** (J. Oliver) 8:30 a.m. – 12:00 noon	JUNE 6 AM **Optical Thin Film Coating Technology** **Design:** **Band-Pass Filters** (J. Oliver) 8:30 a.m. – 12:00 noon	JUNE 7 AM **Optical Thin Film Coating Technology** **From Understanding the Growth of Optical Thin Films to Process Development and the Optimization of Optical Coating Systems** (L. Martinu) 8:30 a.m. – 12:00 noon

JUNE 3 PM	JUNE 4 PM	JUNE 5 PM	JUNE 6 PM	JUNE 7 PM
Optical Thin Film Coating Technology **Tour of Coating Facility & Laser Facility** **LLE** **240 East River Road** 1:00 p.m. – 5:00 p.m. **OMEGA TOUR** **5:30 pm LLE** **240 East River Road**	**Optical Thin Film Coating Technology** **Coating Techniques** (J. Oliver) 1:00 p.m. – 5:00 p.m.	**Optical Thin Film Coating Technology** **Design: Non-Normal Incidence** (J. Oliver) 1:00 p.m. – 5:00 p.m.	**Optical Thin Film Coating Technology** **From Understanding the Growth of Optical Thin Films to Process Development and the Optimization of Optical Coating Systems** (L. Martinu) 1:00 p.m. – 5:00 p.m.	**Optical Thin Film Coating Technology** **Characterization of Optical Thin Films** (D. Smith) 1:00 p.m. – 5:00 p.m.

Other Notes: Handbook of Thin Film Materials

Breaks: Goergen, 5th Floor Lounge
10:15-10:45 AM and 2:45-3:15 PM

SCHEDULE FOR CLASSES HELD ON RIVER CAMPUS

Goergen 101 in Goergen Hall, River Campus

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
JUNE 3 AM **Fundamentals of Optics** Geometrical Optics (D. Moore) 9:00 - 12:00 noon	JUNE 4 AM **Fundamentals of Optics** Fourier Optics (N. George) 9:00 - 12:00 noon	JUNE 5 AM **Fundamentals of Optics** Polarization and Birefringence (T. Brown) 9:00 - 12:00 noon	JUNE 6 AM **Modern Optical Engineering** New Optical Manufacturing Processes (S. Jacobs) 9:00 - 12:00 noon	JUNE 7 AM **Modern Optical Engineering** Optical Thin Films (D. Smith) 9:00 - 12:00 noon

JUNE 3 PM **Fundamentals of Optics**	JUNE 4 PM **Fundamentals of Optics**	JUNE 5 PM **Modern Optical Engineering**	JUNE 6 PM **Modern Optical Engineering**	JUNE 7 PM **Modern Optical Engineering**
Optical Design (J. Bentley)	Radiometry and Detection (G. Wicks)	Optical Engineering for Biomedical Optics (J. Zavislan)	Introduction to Electronic Imaging: A Systems Approach (P. Kane)	Optical Testing and Instrumentation (J. Wyant)
1:30 - 4:30 PM	1:30 - 4:30 PM	1:30 - 4:30 PM	1:30 - 4:30 PM	1:30 - 4:30 PM
Laser Safety 5:00 - 5:30 PM		Laser Safety 5:00 - 5:30 PM		

Laboratory Sessions:
Wilmot Bldg., 5th Floor

Breaks: Goergen, 5th Floor Lounge
10:15-10:45 AM and 2:45 – 3:15 PM

SCHEDULE FOR CLASSES HELD ON RIVER CAMPUS

Goergen 109 in Goergen Hall, River Campus

WEDNESDAY	THURSDAY	FRIDAY
	JUNE 6 AM **Opto-Mechanical Analysis**	JUNE 7 AM **Opto-Mechanical Analysis**
	Modeling Mounts, Vibration Isolation, and Jitter (V. Genberg / K. Doyle)	Adaptive Optics & Optimization (V. Genberg)

	8:00 - 12:00 noon	8:00 - 12:00 noon
JUNE 5 PM **Opto-Mechanical Analysis** Modeling Optics & Surface Errors (V. Genberg / K. Doyle) 1:30 – 4:00 PM **Computer Lab** 4:00 – 5:30 PM	JUNE 6 PM **Opto-Mechanical Analysis** Stress-Optic & Thermo-Optic Effects (V. Genberg / K. Doyle) 1:30 – 4:00 PM **Computer Lab** 4:00 - 5:30 PM	JUNE 7 PM **Opto-Mechanical Analysis** Computer Modeling Labs (G. Michels / V. Genberg) 1:30 – 4:00 PM **Computer Lab** 4:00 - 5:30 PM

SCHEDULE FOR CLASSES HELD ON RIVER CAMPUS

Goergen 101 in Goergen Hall, River Campus, Lasers and Optoelectronics
Goergen 109 in Goergen Hall, River Campus, Biomedical Optics

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
JUNE 10 AM **Lasers and Optoelectronics** Fundamentals of Lasers (C. Stroud)	JUNE 11 AM **Lasers and Optoelectronics** Survey of Laser Systems (C. Stroud)	JUNE 12 AM **Lasers and Optoelectronics** *Semiconductor Lasers and LED's (G. Wicks)*	JUNE 13 **Biomedical Optics** Instrumentations and Clinical Applications of Diffuse Optics (R. Choe)	JUNE 14 **Biomedical Optics** Specroscopic Monitoring and Diagnostics (A. Berger)

9:00 - 12:00 noon	9:00 - 12:00 noon	9:00 - 12:00 noon	9:00 - 12:00 noon	9:00 - 12:00 noon
JUNE 10 PM **Lasers and Optoelectronics** Modern Laser Technology (C. Guo) 1:30 - 4:30 PM	JUNE 11 PM **Lasers and Optoelectronics** Fibers and Fiber Lasers (J. Marciante) 1:30 - 4:30 PM	JUNE 12 AM **Biomedical Optics** The Optics of Turbid Tissues (A. Berger) 1:30 - 4:30 PM	JUNE 13 **Biomedical Optics** The Optics of Watching Live Cells (E. Brown) 1:30 - 4:30 PM	JUNE 14 **Biomedical Optics** Optics and the Eye (J. Hunter) 1:30 - 4:30 PM
Laser Safety 5:00 – 5:30 PM				

Laboratory Sessions: Lasers & Optoelectronics only
Wilmot Bldg., 5th Floor

Breaks: Goergen, 5th Floor Lounge
10:15-10:45 AM and 2:45 – 3:15 PM

SCHEDULE FOR CLASSES HELD ON RIVER CAMPUS

Goergen 101 in Goergen Hall, River Campus

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
JUNE 10 AM **Optical System Design** **Introduction** First Order Layout & Optical Systems	JUNE 11 AM **Optical System Design** **Introduction** Optimization & Improving a Design	JUNE 12 AM **Optical System Design** **Introduction & Advanced** Refractive & Reflective Design Forms	JUNE 13 AM **Optical System Design** **Advanced** Designing with Aspheres & Zoom Lenses	JUNE 14 AM **Optical System Design** **Advanced** Illumination Design (Includes Software Laboratory)

J. Bentley 9:00 - 12:00 noon	J. Bentley 9:00 - 12:00 noon	J. Bentley 9:00 - 12:00 noon	J. Bentley 9:00 - 12:00 noon	R. Pfisterer 9:00 – 12:00 noon
JUNE 10 PM **Optical System Design** **Introduction** Image Quality Evaluation and Aberration Theory J. Bentley 1:30 – 4:30 PM	JUNE 11 PM **Optical System Design** **Introduction** Laboratory: Introduction to Optical Design Software 1:30 – 4:30 PM	JUNE 12 AM **Optical System Design** **Introduction & Advanced** Laboratory: Advanced Optimization Techniques J. Bentley 1:30 - 4:30 PM	JUNE 13 AM **Optical System Design** **Advanced** Stray Light Analysis (Includes Software Laboratory) R. Pfisterer 1:30 - 4:30 PM	JUNE 14 PM **Optical System Design** **Advanced** Tolerancing (Includes Software Laboratory) J. Bentley 1:30 - 4:30 PM

Breaks: Goergen, 5th Floor Lounge
10:15-10:45 AM and 2:45 – 3:15 PM