F2023, FAUM Webpage for Student Reference Material (Topics Courses)
Fall Term - Session 1

ARCH 7000 T-13 Advanced Tech. Topics
Architectural Lighting & Shadows

Registration open to all M.Arch Students (M1 and M2)

Instructor: Ted Landrum

Class meets Wed. *mornings* 8:30-12:20pm for 5 weeks, Sept 13 - Oct 20
(final project due: Oct 24)

Lighting is one of the most interesting, poetic and fun facets of architecture, especially when considered together with shadows! This course explores how and why architects integrate natural and artificial lighting (and shadows) into design work. Students research an inspiring variety of lighting strategies, concepts, precedents, and equipment; conduct and share their own lighting research and photography; learn 'solar yoga'; construct working gnomons and solar path diagrams; learn how to measure and evaluate light levels; design and build experimental light and shadow study models; present a unique spectrum of research findings to each other; and prepare a Final Lighting Booklet (due Oct 24). Students also meet with experts, and tour exemplary sites where lighting and daylighting were central to design, and continue to be primary contributors to the quality, performance, and experience of space. Special thanks to many guest experts who informed this course over the years: including Mark Pauls, at Manitoba Hydro; David Kressock, co-designer of Millennium Public Library; David Isaac, with WDusk Energy Group; glass artist Warren Carther, and Alison Demare and Italo Aguilar, at Robinson Lighting.

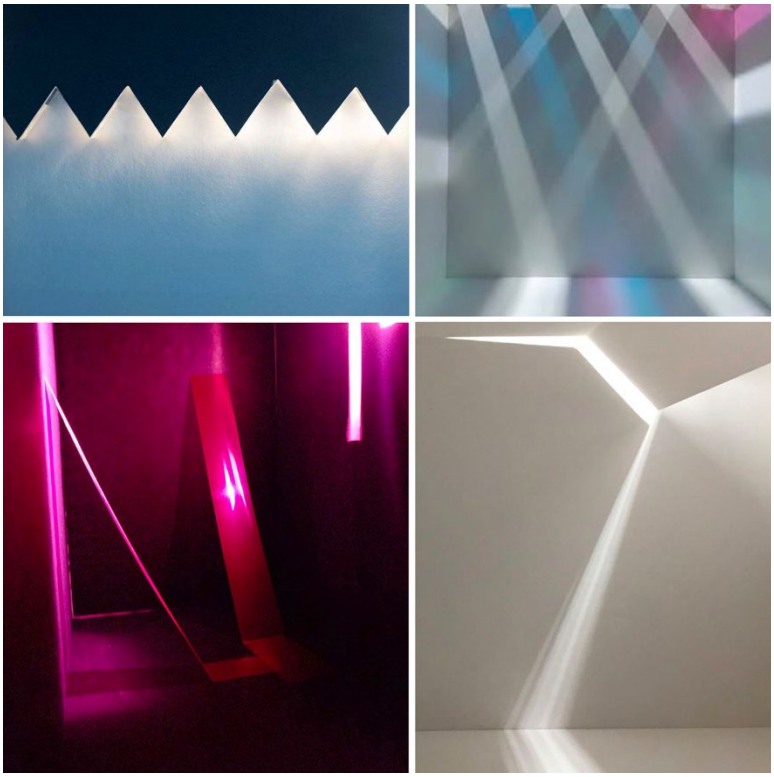

image caption: Student light & shadow models (clockwise from top left): Dylan Hewlett, Teron-Jordan (TJ) Richard, Tessa Linde, and Helia Saadat.

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Fall Term - Session 1

ARCH 7010 T-02 Advanced Tech. Topics
Hands on Masonry

Registration open to all M.Arch Students (M1 and M2)

Instructor: Ted Landrum

Class meets Wed. *afternoons* 1:30-5:20pm for 5 weeks, Sept 13 - Oct 20
(final project due: Oct 24)

In this course students explore the awe-inspiring scope of masonry traditions and innovations. Students get their hands on masonry buildings, materials, textures, tools, and books; research exemplary architectural precedents; learn about masonry techniques, terms, concepts, principles and materials; discover global histories and futures of masonry; and participate in hands-on masonry workshops, tours and expeditions. Students present their own wide-ranging research to each other, and assembled a Final Masonry Booklet (due Oct 24). Special thanks to the Manitoba Masonry Institute for their decade long participation in this course, especially the Gillis Quarries team, and Brian Gebhardt at Red River College. Thanks also to many guest experts whose participation has improved this course over the years: including John Wells, with Crosier Kilgore; Joe Dahmen, expert in zero-carbon and low-carbon masonry from UBC; Evelyn Tickle from *Grow Oyster Reefs*; Shayne Campbell, creator of the *Manitoba Brick Collection*; and Abigail Auld, local writer and curator with knowledge of Tyndall stone geology, buildings and art.

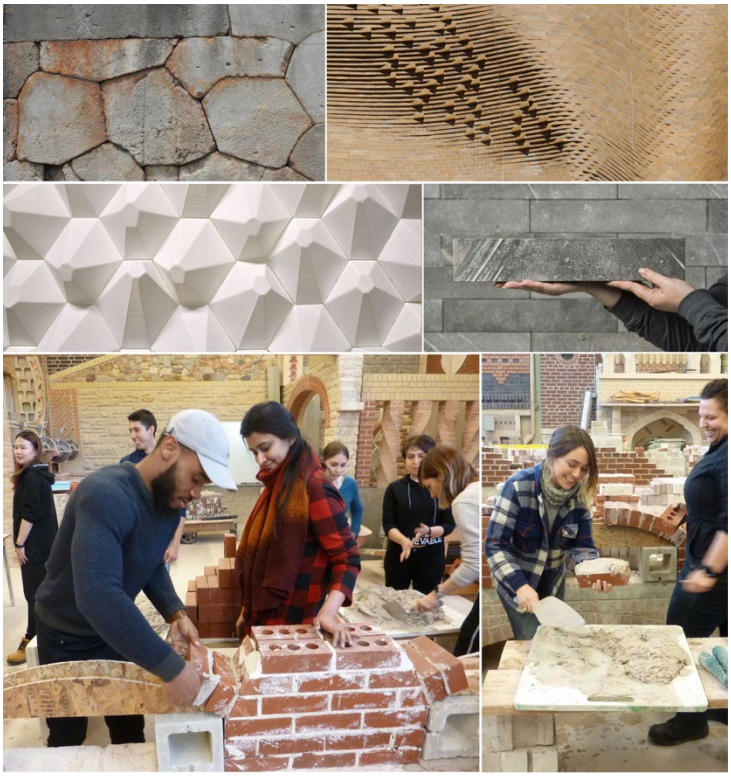

image caption: Students pictured (left to right): Jiesi Xing, Teron-Jordan (TJ) Richard, Odudu 'Power' Umoessien, Fatima Naeem, Alyssa Hornick, Kataun Habashi, Behnaz Rafeei, Lexis Nizio and Mandy Hiltz.