491B **Selected Topics - Printmaking**

Spring. 2 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. P:M: (STA 430 or STA 431 or STA 432 or STA 433 or STA 435) R: Approval of department.

Issues of technique, style, and content in printmaking.

491C **Selected Topics - Ceramics**

Spring. 2 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. P:M: (STA 345)

Issues of technique, style, and content in ceramics.

491D

Selected Topics - Sculpture Spring. 2 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. P:M: (STA 350 or STA 351 or STA 354 or STA 355) R: Approval of department.

Issues of technique, style, and content in sculpture.

Selected Topics - Graphic Design

Spring. 2 to 3 credits. A student may earn a maximum of 6 credits in all enrollments $f\alpha$ this course. P:M: (STA 360) R: Approval of department.

Issues of technique, style, and content in graphic desian.

Selected Topics - Photography

Fall of odd years. 2 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. P:M: (STA 370) R: Approval of department.

Issues of technique, style, and content in photography.

492 Senior Seminar and Professional Practice (W)

Fall, Spring. 2(2-0) P:M: Completion of Tier I writing requirement. R: Open only to seniors in the Studio Art major. C: STA 492A concurrently.

Capstone course for artists and designers. Writing as a mode of issue delineation and definition.

Exhibition Practicum

Fall, Spring. 1(1-1) P:M: Completion of Tier I writing requirement. C: STA 492 concur-

Exhibition experience in studio art. Audience delineation. Conceptualization. Use of space. Evalua-

493

Design InternshipFall, Spring. 1 to 4 credits. A student may earn a maximum of 4 credits in all enrollments for this course. P:M: (STA 460 or STA 462 or STA 463 or STA 464 or STA 465 or STA 466 or STA 467 or STA 468) P:NM: and one other 400 level graphic design course. R: Approval of department, contract required prior to registration.

Field experience in a working design environment under supervision of a design professional: art director, graphic designer, or photographer.

494 **Design Center**

Fall, Spring. 4(0-8) P:M: (STA 460 or STA 462 or STA 463 or STA 464 or STA 465 or STA 466 or STA 467 or STA 468) P:NM: and one other 400 level graphic design course. R: Approval of department, contract required prior to registration.

Practicum in design problem solving, including extensive contact with selected clients at a professional level.

495 Workshop in Studio Art Practice

Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 4 credits in all enrollments for this course. RB: Upper level studio art major. R: Open only to juniors or seniors or graduate students in the Studio Art major or approval of department. Written contract required.

In-depth study of a specific technique or theoretical artistic practice.

820 Painting

Fall, Spring. 2 to 8 credits. A student may earn a maximum of 40 credits in all enrollments for this course. R: Open only to Master of Fine Arts students in Studio Art. Approval of department.

Advanced study in a variety of painting media to foster independent development.

830 **Relief Printing**

Fall, Spring. 2 to 8 credits. A student may earn a maximum of 40 credits in all enrollments for this course. R: Open only to Master of Fine Arts students in Studio Art. Approval of department.

Theory and practice of relief prints as a means to create expressive imagery.

Screen Printing

Fall, Spring. 2 to 8 credits. A student may earn a maximum of 40 credits in all enrollments for this course. R: Open only to Master of Fine Arts students in Studio Art. Approval of department.

Theory and practice of screen printing as a means to create expressive imagery.

832

Lithography
Fall, Spring. 2 to 8 credits. A student may earn a maximum of 40 credits in all enrollments for this course. R: Open only to Master of Fine Arts students in Studio Art. Approval of department.

Theory and practice of lithography as a means to create expressive imagery.

Intaglio Printing

Fall, Spring. 2 to 8 credits. A student may earn a maximum of 40 credits in all enrollments for this course. R: Open only to Master of Fine Arts students in Studio Art. Approval of department.

Theory and practice of intaglio printing as a means to create expressive imagery.

Ceramics

Fall, Spring. 2 to 8 credits. A student may earn a maximum of 40 credits in all enrollments for this course. R: Open only to Master of Fine Arts students in Studio Art. Approval of department.

Advanced study in ceramics to foster independent development.

Sculpture

Fall, Spring. 2 to 8 credits. A student may earn a maximum of 40 credits in all enrollments for this course. R: Open only to Master of Fine Arts students in Studio Art. Approval of department.

Advanced study in a variety of three-dimensional media to foster individual development.

Graphic Design 260

Fall, Spring. 2 to 8 credits. A student may earn a maximum of 40 credits in all enrollments for this course. R: Open only to graduate students in Studio Art. Approval of department.

Planning and conceptualizing ideas for visual communication problems that are to be expressed in words and/or pictures. Design of research that will expose a mastery of visual aesthetics and concepts in information design.

Special Topics in Art Education

Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 3 credits in all enrollments for this course. R: Approval of department.

Special topics supplementing regular course offerings proposed by faculty on a group study basis for graduate students.

Master of Fine Arts Seminar

Fall. 3(3-0) A student may earn a maximum of 12 credits in all enrollments for this course. R: Open only to Master of Fine Arts students in Studio Art. Approval of department

Contemporary intellectual issues related to practice in the visual arts. Group critiques of individual scholarly and applied research.

Master of Fine Arts Research

Fall, Spring. 1 to 8 credits. A student may earn a maximum of 16 credits in all enrollments for this course. P:NM: 12 graduate credits in student's studio art discipline. R: Open only to Master of Fine Arts students in Studio Art.

Individual research project in the student's studio art discipline directed by major professor.

SURGERY

SUR

Department of Surgery College of Human Medicine

Junior Surgery Clerkship

Fall, Spring, Summer. 6 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course. P:NM: (FMP 602) R: Open only to graduateprofessional students in College of Human Medicine

surgical patient, surgical diagnosis, pre-The operative evaluation and post-operative care.

Otolaryngology Clerkship

Fall, Spring, Summer. 6 credits. A student may earn a maximum of 18 credits in all enrollments for this course. P:NM: (SUR 608) R: Open only to graduate-professional students in College of Human Medicine.

Common otolaryngologic disorders, emergencies. Diagnosis and treatment. Primary physician's judgments about management.

Plastic Surgery Clerkship

Fall, Spring, Summer. 6 credits. A student may earn a maximum of 18 credits in all enrollments for this course. P:NM: (SUR 608) R: Open only to graduate-professional students in College of Human Medicine.

Principles of wound healing and tissue repair. Indications and applications of plastic surgery procedures

Urology Clerkship 611

Fall, Spring, Summer. 6 credits. A student may earn a maximum of 18 credits in all enrollments for this course. P:NM: (SUR 608) R: Open only to graduate-professional students in College of Human Medicine.

Demonstration of clinical manifestations of genitourinary disease, investigative methods and techniques of diagnosis and management. Urologic emergencies and performance of basic urologic

613

Orthopedic Surgery Clerkship Fall, Spring, Summer. 6 credits. A student may earn a maximum of 18 credits in all enrollments for this course. P:NM: (SUR 614) R: Open only to graduate-professional students in College of Human Medicine.

Diagnosis and management skills in common orthopedic problems. Orthopedic emergencies.

614 Neurosurgery Clerkship

Fall, Spring, Summer. 6 credits. A student may earn a maximum of 18 credits in all enrollments for this course. P:NM: SUR 608. R: Open only to graduate-professional students in College of Human Medicine.

Problems related to common emergent and elective neurosurgery involving the brain, spine, and peripheral nerves. Neurological examinations, diagnostic methods.

615

Ophthalmology Clerkship Fall, Spring, Summer. 6 credits. A student may earn a maximum of 18 credits in all enrollments for this course. P:NM: (SUR 608) R: Open only to graduate-professional students in College of Human Medicine.

Medical and surgical treatment of eye diseases. Clinical experiences include private office practice, surgical observations, pre-and post-operative care.

Thoracic Surgery Clerkship 616

Fall, Spring, Summer. 6 credits. A student may earn a maximum of 18 credits in all enrollments for this course. P:NM: (SUR 608) R: Open only to graduate-professional students in College of Human Medicine.

Problem solving in thoracic medicine and surgery. Pulmonary physiology. Diagnostic tools and tests, and indications for surgical procedures.

618

Anesthesia Clerkship Fall, Spring, Summer. 6 credits. A student may earn a maximum of 18 credits in all enrollments for this course. P:NM: (SUR 608) R: Open only to graduate-professional students in College of Human Medicine.

Common anesthetic agents. Performing anesthetic procedures under faculty supervision.

619 Sub-specialty Surgery Clerkship

Fall, Spring, Summer. 6 credits. A student may earn a maximum of 18 credits in all enrollments for this course. P:NM: (SUR 608) R: Open only to graduate-professional students in College of Human Medicine.

Surgical domains not covered otherwise or in which students desire further exposure.

620 Senior Surgery Clerkship

Fall, Spring, Summer. 6 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course. P:NM: (SUR 608 And MED 608) R: Open only to graduate-professional students in the College of Human Medicine.

Advanced experience in critical care, trauma, and nutrition. Students must successfully complete several technical bedside procedures with more responsibility for patient care than in SUR 608.

Surgical Nutritional Care Clerkship

Fall, Spring, Summer. 6 credits. A student may earn a maximum of 18 credits in all enrollments for this course. P:NM: (SUR 608) R: Open only to graduate-professional students in College of Human Medicine.

Clinical experience with nutrition team dealing with surgical and medical patients requiring therapeutic nutrition as a result of metabolic derangement and nutritional deficiencies.

Extended Clinical Experience

Fall, Spring, Summer. 6(6-0) P:M: (SUR 608)

Based in community hospitals and ambulatory sites, this is a 4 week clinical experience emphasizing interviewing skills, history, physical exam, problem solving and therapy.

Core Competencies III

Spring, Summer. 2 credits. A student may earn a maximum of 6 credits in all enrollments for this course. Interdepartmental with Human Medicine; Family Practice; Medicine; Obstetrics, Gynecology and Reproductive Biology; Pediatrics and Human Development. Administered by Human Medicine, P:NM: (FMP 602) R: Open only to graduate-professional students in College of Human Medicine.

A weekly seminar addressing core knowledge and skills from an interdisciplinary perspective.

Shock and Metabolism

Fall. 4(4-0) R: Open only to M.S. students in Surgery.

Results of prolonged reduction in tissue perfusion on tissue metabolism, structure, and function at the systemic, cellular and subcellular levels. Pharmacologic interventions useful in volume resuscitation.

Clinical Surgical Anatomy

Spring. 4(2-4) Interdepartmental with Anatomy. R: Open only to Master's students in Surgery. SA: ANT 802

Review of surgical anatomy. Detailed anatomical information through lecture and dissection sessions. Clinical interpretation of anatomy and surgical approaches.

Enteral and Parenteral Nutrition 803

Fall, Summer. 3(3-0) R: Open only to M.S. students in Surgery.

Identification of individuals requiring nutritional support. Nutritional requirements in diseases. Delivery of total parenteral and enteral nutrition. Special

Research Design and Quantitative 804 **Techniques for Surgical Residents**

Spring. 3(3-0) R: Open only to students in master's degree program in Surgery.

Recognition and differentiation between experimental designs. Identification of strengths and weaknesses of a manuscript. Recognition and definition of statistical terms and common inferential techniques used in surgical research. Use of computer software in research.

ียดก Seminars in Research

Fall, Spring, Summer. 1 credit. A student may earn a maximum of 5 credits in all enrollments for this course. R: Open only to M.S. students in Surgery.

Philosophy and methods of research. Preparation and presentation of research data in research reports. Practical applications.

Master's Thesis Research

Fall, Spring, Summer. 3 to 4 credits. A student may earn a maximum of 10 credits in all enrollments for this course. P:NM: (SUR 801 and SUR 802 and SUR 803 and SUR 804) R: Open only to M.S. students in Surgery. Approv al of department.

Master's thesis research.

TEACHER EDUCATION

TE

Department of Teacher Education College of Education

Reflections on Learning
Fall, Spring, Summer. 3(3-0) Interdepartmental with Counseling, Educational Psychology and Special Education.

Students' experiences as learners in comparison to psychological, sociological, and anthropological theories and assumptions about learning and teaching in and out of school.

Diverse Learners in Multicultural Perspective

Fall, Spring, Summer. 3(2-2) Interdepartmental with Counseling, Educational Psychology and Special Education. Administered by Department of Counseling, Educational Psychology, and Special Education. Not open to students with credit in TE 250.

Communicative, linguistic, physical, sensory, behavioral, affective, and cognitive differences in learning in multicultural classrooms. Factors that mediate access to knowledge.

Human Diversity, Power, and Opportunity in Social Institutions Fall, Spring, Summer. 3(3-0)

Comparative study of schools and other social institutions. Social construction and maintenance of diversity and inequality. Political, social and economic consequences for individuals and groups.

Learners and Learning in Context (W)

Spring. 4(3-4) P:M: Completion of Tier I writing requirement. P:NM: (TE 150) And (TE 250 Or CEP 240) R: Not open to freshmen or sophomores. Open only to students admitted to the teacher certification program.

Role of social context and sociocultural background in learning. Natural and socially constructed differences among learners. Relationship among subjectspecific knowledge, teaching and learning that subject, and the institutional and communal context. Multiple literacies.