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 434 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.

491E Selected Topics - Graphic Design
Spring. 2 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. P.M.: (STA 360) R: Approval of department. Issues of technique, style, and content in graphic design.

491F 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.

492A Exhibition Practicum

493 Design Internship
Fall, Spring. 1 to 4 credits. A student may earn a maximum of 6 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.N.M.: 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.N.M.: 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. R: Open only to Masters of Fine Arts students in Studio Art. R: 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 Masters of Fine Arts students in Studio Art. 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 Masters of Fine Arts students in Studio Art. Theory and practice of relief prints as a means to create expressive imagery.

831 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 Masters of Fine Arts students in Studio Art. 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 Masters of Fine Arts students in Studio Art. Theory and practice of lithography as a means to create expressive imagery.

833 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 Masters of Fine Arts students in Studio Art. Theory and practice of intaglio printing as a means to create expressive imagery.

840 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 Masters of Fine Arts students in Studio Art. Advanced study in ceramics to foster independent development.

850 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 Masters of Fine Arts students in Studio Art. Advanced study in a variety of three-dimensional media to foster individual development.

860 Graphic Design
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.

891 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.

892 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 Masters 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.

898 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.N.M.: STA 432 or STA 433 or STA 435) R: Upper level students in College of Human Medicine. Individual research project in the student’s studio art discipline directed by major professor.

SUR–Surgery
Department of Surgery
College of Human Medicine

608 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.N.M.: (FMP 602) R: Open only to graduate-professional students in College of Human Medicine. The surgical patient, surgical diagnosis, pre-operative evaluation and post-operative care.

609 Otolaryngology Clerkship
Fall, Spring, Summer. 6 credits. A student may earn a maximum of 18 credits in all enrollments for this course. P.N.M.: (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.

610 Plastic Surgery Clerkship
Fall, Spring, Summer. 6 credits. A student may earn a maximum of 18 credits in all enrollments for this course. P.N.M.: (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.
Surgical domains not covered otherwise or in which procedures are done under faculty supervision.

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.

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.

621 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.

633 Extended Clinical Experience
Fall, Spring, Summer. 6(6-0) P:NM: (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.

637 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.

680 Shock and Metabolism
Fall, Spring, Summer. 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.

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

803 Enteral and Parenteral Nutrition
Fall, Spring, 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 problems.

804 Research Design and Quantitative 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.

989 Master's Thesis Research
Fall, Spring, Summer. 3 to 6 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. Approval of department.
Master's thesis research.

TEACHER EDUCATION
College of Education

150 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.

240 Diversity 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.

250 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.

301 Learners and Learning in Context (W)
Spring, 4(3-4) P: 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 subject-specific knowledge, teaching and learning that subject, and the institutional and communal context. Multiple literacies.