### STATISTICS AND PROBABILITY

**STT**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Offered</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>200.</strong></td>
<td>Statistical Methods</td>
<td>Fall, Spring. 3(0-0)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>315.</strong></td>
<td>Introduction to Probability and Statistics for Business</td>
<td>Fall, Spring. 3(0-0)</td>
<td>3</td>
<td>MTH 111</td>
</tr>
<tr>
<td><strong>331.</strong></td>
<td>Statistics for Scientists</td>
<td>Fall, Spring. 3(3-0)</td>
<td>3</td>
<td>P: MTH 121 or MTH 114 or MTH 132 or LBS 101. Open only to students in College of Natural Science. Not open to students with credit in STT 351 or STT 441. Calculus based course in probability and statistics. Probability models, random variables, tests of hypotheses, confidence intervals with applications in science. QP: LBS 113 OR MTH 113.</td>
</tr>
<tr>
<td><strong>351.</strong></td>
<td>Probability and Statistics for Engineers</td>
<td>Fall, Spring. 3(3-0)</td>
<td>3</td>
<td>P: MTH 234. R: Not open to students with credit in STT 200. A calculus based course in probability and statistics for engineering students. Probability models, random variables, tests of hypotheses, confidence intervals with engineering applications. QP: STT 251.</td>
</tr>
<tr>
<td><strong>439.</strong></td>
<td>Introduction to Probability and Statistics</td>
<td>Fall, Spring. 3(3-0)</td>
<td>3</td>
<td>MTH 126 or MTH 133. R: Open only to Economics and Agricultural Economics majors. Not open to students with credit in STT 231 or STT 351 or STT 441 or STT 421. Calculus based probability and statistics with applications. Discrete and continuous random variables and their expectations. Point and interval estimation, tests of hypotheses, simple linear regression. QP: MTH 113 OR MTH 121.</td>
</tr>
<tr>
<td><strong>441.</strong></td>
<td>Probability and Statistics for Scientists</td>
<td>Fall, Spring. 3(3-0)</td>
<td>3</td>
<td>MTH 235 or concurrently. Discrete and continuous distributions: univariate and multivariate. Normal approximation, sampling distributions and parameter estimation. Poisson process and applications. QP: MTH 215.</td>
</tr>
<tr>
<td><strong>442.</strong></td>
<td>Probability and Statistics for Scientists</td>
<td>Fall, Spring. 3(3-0)</td>
<td>3</td>
<td>MTH 235 or concurrently. Estimation, tests of hypotheses, confidence intervals. Goodness of fit, non-parametric methods. Linear models, multiple regression, ANOVA. QP: STT 441.</td>
</tr>
<tr>
<td><strong>461.</strong></td>
<td>Computations in Probability and Statistics</td>
<td>Fall, Spring. 3(3-0)</td>
<td>3</td>
<td>P: CSS 131 or CSS 230; MTH 314, STT 441. Computer algorithms for evaluation, simulation and visualization. Sampling and prescribed distributions. Robustness and error analysis of procedures used by statistical packages. Graphical data display, computations of probabilities and percentiles. QP: STT 441 MTH 334.</td>
</tr>
<tr>
<td><strong>464.</strong></td>
<td>Statistical Methods for Biologists</td>
<td>Fall, Spring. 3(0-0)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>471.</strong></td>
<td>Statistics for Quality and Productivity</td>
<td>Fall, Spring. 3(0-0)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>481.</strong></td>
<td>Issues in Statistical Practice</td>
<td>Spring. 1(0-0)</td>
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**SPANISH**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td><strong>835.</strong></td>
<td>Spanish American Literature before Modernismo</td>
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<tr>
<td><strong>840.</strong></td>
<td>Contemporary Spanish American Literature</td>
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**STUDIO ART**

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</thead>
<tbody>
<tr>
<td><strong>110.</strong></td>
<td>Drawing Fundamentals I</td>
<td>Fall, Spring. 3(0-6)</td>
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</tbody>
</table>

Courses with an asterisk (*) have not been approved by the University Committee on Curriculum.

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The courses listed above cover a wide range of topics in statistics and probability. They are designed to provide students with a strong foundation in statistical methods and probability theory, which are essential for various fields such as economics, engineering, and data science. The courses range from introductory to advanced levels, catering to students with different backgrounds and interests.
111. Drawing Fundamentals II
Fall, Spring. 3(0-6)
Continuation of STA 110 drawing content with increased development of personal imagery and expression. Introduction of the means of abstraction and of the use of the human figure as subject matter.
QP: STA 141

113. Color and Design
Fall, Spring. 3(0-6)
Basic elements of two-dimensional design. Principles of organization and the theory and practice of color as a basis for creative solutions for the problems of the artist and designer.
QP: STA 142

114. Three-Dimensional Form
Fall, Spring. 3(0-6)
Formal elements of three-dimensional form. Application of the principles of organization as a means for producing creative solutions for the artist and designer. Related practical experience with a variety of materials and processes.
QP: STA 143

300. Intermediate Drawing
Fall, Spring. 3(0-6)
P: STA 110, STA 111, STA 113, STA 114. Observational and imaginative drawing including the human figure. Non-representational contemporary drawing. Contemporary drawing systems, concepts, and process.
QP: STA 242 QP, STA 340

302. Time-Space-Motion-Sound
Spring. 3(0-6)
P: STA 300 R: Juniors and above
Theory and exploration in multi-dimensional forms of artistic expression and their interrelationships.

320. Painting I
Fall, Spring. 3(0-6)
QP: STA 141 STA 142 QP, STA 255

325. Painting II
Fall, Spring. 3(0-6)
P: STA 306, STA 320. Continuation of representational painting, and introduction to non-representational painting and concepts.
QP: STA 255 QP, STA 358 STA 358 STA 357

340. Ceramics I
Fall, Spring. 3(0-6)
P: STA 110, STA 111, STA 113, STA 114. Ceramic processes including handbuilding, glaze formulation, and kiln firing.
QP: STA 141 STA 143 QP, STA 240

345. Ceramics II
Fall, Spring. 3(0-6)
P: STA 340. Continued development of ceramic forming and firing techniques including handbuilding, glaze formulation, mold making, casting, and wheel throwing.
QP: STA 240 STA 241 QP, STA 341

350. Figure Modeling
Fall, Spring. 3(0-6)
P: STA 110, STA 111, STA 113, STA 114. Modeling human and natural forms.
QP: STA 141 STA 143 QP, STA 228

351. Collage, Mixed Media, Assemblage
Fall, Spring. 3(0-6)
P: STA 110, STA 111, STA 113, STA 114. Exploration of artistic expression using collage, mixed media, and assemblage techniques.
QP: STA 143 QP, STA 229 STA 328

355. Casting
Fall, Spring. 3(0-6)
P: STA 110, STA 111, STA 113, STA 114. Casting concepts and techniques as a means of artistic expression.
QP: STA 228 QP, STA 328

355. Construction and Fabrication
Fall, Spring. 3(0-6)
P: STA 110, STA 111, STA 113, STA 114. Sculptural concepts using methods of construction and fabrication as an approach to artistic expression.
QP: STA 228 QP, STA 328

360. Graphic Design
Fall, Spring. 3(0-6)
P: STA 110, STA 111, STA 113, STA 114. Graphic signs and symbols used in visual communications. Application of design principles to experimental and practical problem solving.
QP: STA 141 STA 142 QP, STA 231

370. Photography
Fall, Spring. 4(2-4)
P: STA 110, STA 111, STA 113, STA 114. History and basic technology of black and white photography, integrative camerawork, and darkroom processing. Issues in photographic aesthetics. Students furnish camera and all materials.
QP: STA 141 STA 142 QP, STA 200

380. Art for Early Childhood and Elementary Education
Fall, Spring. 3(1-4)
Creative art experience and its application for children. Children's growth and development in art. Studio activities, readings, and discussion.
QP: STA 310

381. Learning Strategies, Concepts, Resources and Materials for Art Education
Spring. 4(0-8) R: Juniors and above
QA. BFA Art Education
Growth and development of learners: concepts, processes, and materials as they apply to art teaching situations.
QP: STA 303

400. Advanced Drawing
Fall, Spring. 4(0-8)
QP: STA 340 QP, STA 430

405. Metalsmithing
Fall. 4(0-8)
P: STA 110, 111, 113, 114 Processes of forming, joining, finishing and embellishing metals to create small sculpture or jewelry.
QP: STA 141 STA 142STA 143 QP, STA 249

407. Art in London
Summer. 3(0-6)
P: STA 110, 111, 113, 114 Study in London of a variety of art disciplines. Visits to museums, galleries, monuments and other relevant sites, with some field trips away from the city. Meetings with artists.
QP: STA 450W

420. Painting
Fall, Spring. 4(0-8) May reenroll for a maximum of 20 credits.
QP: STA 325 Painting
Advanced applications of painting concepts, styles and techniques. Further consideration of the language of contemporary painting.
QP: STA 355 STA 356STA 357 QP, STA 455

430. Relief Printing
Fall of odd-numbered years, Spring of even-numbered years. 4(0-8) May reenroll for a maximum of 20 credits.
P: STA 300 or STA 320. R: Not open to Freshman
to terminate individual thematic development and advanced study.
QP: STA 141 STA 142 QP, STA 247

431. Screen Printing
Fall of even-numbered years, Spring of odd-numbered years. 4(0-8) May reenroll for a maximum of 20 credits.
P: STA 300 or STA 320. R: Not open to Freshman
Screen printing as a fine art print medium. Theory and techniques as a means to creative and expressive imagery. May reenroll to continue individual thematic development and advanced study.
QP: STA 305 QP, STA 406

432. Lithography
Fall, Spring. 4(0-8) May reenroll for a maximum of 20 credits.
P: STA 300 or STA 320. R: Not open to Freshman
Lithographic process as an artistic medium. Techniques of the medium, preparing the plate or stone, printing, the use of tusche, wash and rubbing as a means to creative imagery. May reenroll to continue individual thematic development and advanced study.
QP: STA 306 QP, STA 406

433. Intaglio
Fall, Spring. 4(0-8) May reenroll for a maximum of 20 credits.
P: STA 300 or STA 320. R: Not open to Freshman
Aesthetic principles and techniques such as line etching, soft ground, aquatint, dry point, wax resist and collagraph and monoprints. May reenroll to continue individual thematic development and advanced study.
QP: STA 142 STA 241 QP, STA 307

455. Handmade Paper
Spring of odd-numbered years. 4(0-8) May reenroll for a maximum of 20 credits.
P: STA 300 or STA 320. R: Not open to Freshman
Handmade paper as an art form. Basic techniques including lamination, layering, folding and vacuum forming. May reenroll to continue individual thematic development and advanced study.
QP: STA 409

460. Ceramics
Fall, Spring. 4(0-8) May reenroll for a maximum of 20 credits.
P: STA 345
Further development of aesthetic and technical skills with particular focus on contemporary issues of content and concept. Students will have increased opportunity for supervised individual study.
QP: STA 451

460. Advanced Sculpture
Fall, Spring. 4(0-8) May reenroll for a maximum of 20 credits.
P: At least two courses from the sequence STA 250, 251, 354, 355
Advanced applications of sculpture concepts, styles and techniques. Further consideration of the language of contemporary sculpture, with emphasis on individual direction.
QP: STA 328 QP, STA 428

460. Graphic Communication
Fall, Spring. 4(0-8) P: STA 345
Graphic design as a visual communication based on typographic problem solving through selected experimental and practical projects.
QP: STA 231 QP, STA 361
STUDIO ART

Courses are subject to revision and final approval.

462*. Three-dimensional Design
Spring. 4(0-8)
P: STA 460

Developers and application of visual communication
elements for three-dimensional structures and com-

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compound surfaces within a broad range of scale
QP: STA 231 STA 143 QA: STA 382

463*. Book Design
Fall. 4(0-8)
P: STA 460.

Principles of typography and graphic design as ap-

plied to the book form.
QP: STA 231 QA: STA 383

464*. Design Process and Concepts
Fall. 4(0-8)
P: STA 460.

Problem solving methods, strategies and procedures.
Exploration of problem definition, analysis, concept
development, and evaluation.
QP: STA 231 QA: STA 384

465*. The Poster
Spring. 4(0-8)
P: STA 460.

Poster design as a combined verbal and non-verbal
communication device. Study of the visual elements
used to persuade and inform.
QP: STA 231 STA 200 QA: STA 385

466*. Corporate Imagery
Fall. 4(0-8)
P: STA 460.

Design development, hierarchical unification, and
application strategies for the graphic identification
of organizations and sub-units of organizations.
QP: STA 231 QA: STA 386

467*. Motion Graphics and Electronic
Media
Fall. 4(0-8)
P: STA 460.

Non-print methods of visual communication. Compu-
ter and video based two-dimensional animation design.
QP: STA 231 QA: STA 387

468*. Computer Graphics
Spring. 4(0-8)
P: STA 460.

The computer as a medium for visual communication
design. Experimentation with drawing, painting and
solid modeling applications.
QP: STA 231 QA: STA 388

470*. Still Photography
Fall. Spring. 4(2-4)
P: STA 370.

Control of black and white photographic materials
through advanced camera and darkroom techniques.
View camera principles and use. Print hand-coloring
and archival processing. Contemporary form and
content issues.
QP: STA 200 QA: STA 300

472*. Color Photography
Spring. 4(2-4)
P: STA 470.

Principles of color photography. Vision, perception,
and photographic science and art. Effect of color on
content. Color negative process and printing.
QP: STA 300 QA: STA 372

473*. Landscape Photography
Fall. 4(2-4)
P: STA 470.

Principles of landscape photography ranging from
response to the rural and pastoral to urban and hu-
man altered, historical and contemporary aesthetic
trends. Film formats ranging from 35 mm to 4" x 5".
Controlled black and white printmaking and zone
py
QP: STA 300

474*. Photography Studio Lighting
Fall. 4(2-4)
P: STA 470.

The photographer's balance of still life and portrait
composition and controlled lighting with personal
interpretation of subject matter. Lighting theory,
technique, and equipment.
QP: STA 300 QA: STA 370 STA 371

475*. Photography Workshop
Spring. 4(1-6)
P: STA 470.

Non-traditional photographic processes and concepts:
non-silver printmaking, electronic still imaging, com-
puter manipulation, video production, and slide-sound
productions.
QP: STA 300 QA: STA 401

481*. Art Experiences with Children and Youth: Elementary
Fall. 4(0-8)
P: STA 381 R: Juniors and above BFA
Art Education
Art learning experiences with children and youth.
Art teaching in the Saturday Art Program; emphasis
on elementary experiences.
QP: STA 303 QA: STA 402

482*. Art Experiences with Children and Youth: Secondary
Spring. 4(0-8)
P: STA 381, 481 R: Juniors and above
BFA Art Education
Art learning experiences with children and youth.
Art teaching in the Saturday Art Program; emphasis
on secondary experiences.
QP: STA 303 QA: STA 402

490*. Independent Study
Fall, Spring, Summer. 1 to 3 credits.
May reenroll for a maximum of 3
credits.
R: Approval of the
Department
Special projects arranged by an individual student;
and a faculty member in areas supplementing regular
course offerings.
QA: STA 460

491A*. Selected Topics in Studio Art:
Painting
Fall. Spring. 4(0-8)
P: Junior standing and at least one 400
course in areas of selected topic.

Special topics in each of the primary areas of empha-

sis in studio art.
QA: STA 495

491B*. Selected Topics in Studio Art:
Printmaking
Fall, Spring. 4(0-8)
P: Junior standing and at least one 400
course in areas of selected topic.

Special topics in each of the primary areas of empha-

sis in studio art.
QA: STA 465

491C*. Selected Topics-Ceramics
Spring. 2 to 3 credits. May reenroll
for a maximum of 6 credits.
P: STA 341 R: Juniors or above Approval
of department
Issues of technique, style, and content in ceramics.
QA: STA 461

491D*. Selected Topics-Sculpture
Spring. 2 to 3 credits. May reenroll
for a maximum of 8 credits.
P: STA 110, 111, 115, 116 R: Juniors or
above Approval of department
Issues of technique, style, and content in sculpture.
QP: STA 143

491E*. Senior Seminar and Professional Practice
Fall, Spring. 4(0-8)
P: Junior standing and at least one 400
course in area of selected topic.

Special topics in each of the primary areas of empha-

sis in studio art.
QA: STA 464

492*. Senior Seminar and Professional Practice
Spring. 4(0-8)
P: Junior or Joint STA

Seminar and professional practice for artists and
designers. Writing as a mode of issue delineation
and definition.
QA: STA 468

492A*. Selected Topics in Studio Art:
Photography
Fall, Spring. 4(0-8)
P: Junior standing and at least one 400
course in area of selected topic.

Special topics in each of the primary areas of empha-

sis in studio art.
QA: STA 464

493*. Design Internship
Fall, Spring. 1 to 4 credits. May
reenroll for a maximum of 4 credits.
P: 12 credits in 400 level design courses.
R: Open only to seniors in Studio Art.

Senior and professional practice for artists and
designers. Writing as a mode of issue delineation
and definition.
Field experience in a working design environment
under supervision of a design professional; art direc-
tor, graphic designer, or photographer.
QA: STA 497

494*. Design Center
Fall, Spring. 4(0-8)
P: 12 credits of 400 level design courses
and a portfolio review R: Juniors and above BFA
majors with design emphasis
Design problem solving. Extensive contact with
selected clients at a professional level.
QA: STA 498

520*. Painting
Fall, Spring. 2 to 8 credits. May
reenroll for a maximum of 40 credits.
P: STA 420 or approval of department R:
M.F.A degree candidates
Advanced work in any of the major areas of painting.
Practitioners use their own individual direction; guidance
and support through a committee comprised of depart-
ment faculty; group critiques.
QA: STA 501

530*. Relief Printing
Fall, Spring. 2 to 8 credits. May
reenroll for a maximum of 40 credits.
P: STA 430 or approval of department R:
M.F.A degree candidates
Theory and practice of relief printing as a means to
create expressive imagery.

531*. Screen Printing
Fall, Spring. 2 to 8 credits. May
reenroll for a maximum of 40 credits.
P: STA 431 or approval of department R:
M.F.A degree candidates
Theory and practice of screen printing as a means to
create expressive imagery.

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**STUDIO ART**

822. Lithography
Fall, Spring. 2 to 8 credits. May reenroll for a maximum of 40 credits. P: STA 432 or approval of department R: M.F.A. degree candidates
Theory and practice of lithography as a means to create expressive imagery.
QA: STA 610

823. Intaglio Printing
Fall, Spring. 2 to 8 credits. May reenroll for a maximum of 40 credits. P: STA 450 or approval of department R: M.F.A. degree candidates
Theory and practice of intaglio printing as a means to create expressive imagery.
QA: STA 809

840. Ceramics
Fall, Spring. 2 to 8 credits. May reenroll for a maximum of 40 credits. P: STA 490 or approval of department R: M.F.A. degree candidates
Advanced level ceramics involving contemporary issues of technique and content; experiences leading to independent development.
QA: STA 804

850. Sculpture
Fall, Spring. 2 to 8 credits. May reenroll for a maximum of 40 credits. P: STA 450 or approval of department R: M.F.A. degree candidates
Investigation and development of visual forms leading to questioning of perceptual responses used in design problem solving and clarification.
QA: STA 806

882. Seminar in Art Education
Fall of even-numbered years. 3(3-0) R: Approval of department
Examination of contemporary thought in art education. Current problems examined within an interdisciplinary framework. Research and reports.
QA: STA 825

883. Critical Theory and Aesthetic Experience in Art Education
Spring of odd-numbered years. 3(3-0) R: Approval of department
Theories of art criticism and aesthetic experience. Application of these concepts for art education or related fields.
QA: STA 826

884. Curriculum Design for Art Education
Fall of odd-numbered years. 3(3-0) R: Approval of department
Factors affecting art curriculum; analysis, preparation and evaluation.
QA: STA 827

885. Research Methods for Art Education
Spring of even-numbered years. 3(3-0) R: Approval of department
Research design and methodologies applicable to the study of problems in art education; preparation and evaluation.
QA: STA 898

888. M.F.A. Seminar
Fall, Spring. 3(0-0) May reenroll for a maximum of 18 credits. R: M.F.A. degree candidates
Examination and review of contemporary intellectual issues related to the visual arts. Group critiques of individual scholarly and applied research.

888. M.F.A. Thesis
Fall, Spring. 4 to 8 credits in increments of 2 credits. May reenroll for a maximum of 16 credits. P: 12 graduate credits in student's studio art discipline R: M.F.A. degree candidates
Capstone work for M.F.A. degree candidates in Studio Art.

**SURGERY**

608. Basic Surgery Clerkship
P: 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.
QA: SUR 608

609. Otolaryngology Clerkship
Fall, Spring, Summer. 6(0) May reenroll for a maximum of 18 credits. P: SUR 608, R: Open only to graduate-professional students in College of Human Medicine. Common otolaryngologic disorders, emergencies. Diagnosis and pre-operative care. Primary physician's judgments about management.
QA: SUR 609

610. Plastic Surgery Clerkship
Fall, Spring, Summer. 6(0) May reenroll for a maximum of 18 credits. P: 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 surgical procedures.
QA: SUR 610

611. Urology Clerkship
Fall, Spring, Summer. 6(0) May reenroll for a maximum of 18 credits. P: SUR 608, R: Open only to graduate-professional students in College of Human Medicine. Demonstration of clinical manifestation of genito-urinary disease, investigative methods and techniques of diagnosis and management. Urologic emergencies and performance of basic urologic skills.
QA: SUR 611

613. Orthopedic Surgery Clerkship
Fall, Spring, Summer. 6(0) May reenroll for a maximum of 18 credits. P: SUR 608, R: Open only to graduate-professional students in College of Human Medicine. Diagnosis and management skills in common orthopedic problems. Orthopedic emergencies.
QA: SUR 613

614. Neurosurgery Clerkship
Fall, Spring, Summer. 6(0) May reenroll for a maximum of 18 credits. P: SUR 608, R: Open only to graduate-professional students in College of Human Medicine. Common emergent and elective neurological problems involving the brain, spine, and peripheral nerves. Neurological examinations, diagnostic methods.
QA: SUR 614

615. Ophthalmology Clerkship
Fall, Spring, Summer. 6(0) May reenroll for a maximum of 18 credits. P: 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.
QA: SUR 615

616. Thoracic Surgery Clerkship
Fall, Spring, Summer. 6(0) May reenroll for a maximum of 18 credits. P: 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.
QA: SUR 616

618. Anesthesia Clerkship
Fall, Spring, Summer. 6(0) May reenroll for a maximum of 18 credits. P: SUR 608. R: Open only to graduate-professional students in College of Human Medicine. Common anesthetic agents. Performing anesthetic procedures under faculty supervision.
QA: SUR 618

619. Sub-specialty Surgery Clerkship
Fall, Spring, Summer. 6(0) May reenroll for a maximum of 18 credits. P: 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.
QA: SUR 619

620. Advanced Surgery Clerkship
Fall, Spring, Summer. 6(0) P: SUR 608, MED 608. R: Open only to graduate-professional students in 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.
QA: SUR 620

621. Surgical Nutritional Care Clerkship
Fall, Spring, Summer. 6(0) May reenroll for a maximum of 18 credits. P: 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.
QA: SUR 621

801. Shock and Metabolism
Fall. 6(4) P: M.D. or D.O. degree and acceptance into Masters Program in Surgery R: M.D.'s or D.O.'s accepted into Master's Degree in Surg Prog. Results of prolonged resuscitation in trauma perfusion on tissue metabolism, structure, and function at the systemic, cellular and subcellular levels and pharmacologic interventions useful in volume resuscitation.
QA: SUR 801