# Proposal Form For Addition And Revision Of Courses

1. **Proposing College / School:** College of Veterinary Medicine  
   **Department:** Clinical Sciences

2. **Course Prefix and Number:** VMED 5310  
   **Effective Term:** Spring 2012

3. **Course Title:** INTRODUCTION TO SURGERY

4. **Requested Action:**  
   - **Renumber a Course**  
   - **Add a Course**  
   - **Revise a Course**

5. **Course Credit:**  
   - **Maximum Hours (Repeatability):** 2  
   - **Contact/Group Hours:** 30  
   - **Scheduled Type:** Lecture / Laboratory  
   - **Weekly or Per Term?** TERM  
   - **Credit Hours:** 2  
   - **Anticipated Enrollment:** 120  
   - **Total Credit Hours:** 2

6. **Grading Type:**  
   - **Regular (ABCDF)**  
   - **Satisfactory/Unsatisfactory (S/U)**  
   - **Audit**

7. **Prerequisites/Corequisites:**  
   Use “P:” to indicate a prerequisite, “C:” to indicate a corequisite, and “P/C:” to indicate a prerequisite with concurrency.

8. **Restrictions:** List specific restriction in space above.

9. **Course Description:**  
   (20 Words or Less; exactly as it should appear in the Bulletin)

10. **Affected Program(s):**
    (Respond “N/A” if not included in any program; attach memorandum if more space is required)

11. **May Count Either:** N/A or 
    - **Program Type** (e.g.: minor, major, etc.)
    - **Program Title** (e.g.: MS in Chemistry, Performance Option, Minor in Art)
    - **Requirement or Elective?** (required or optional?)

12. **Overlapping or Duplication of Other Units’ Offerings:**
    (If course is included in any other degree program, is used as an elective frequently by other unit(s), or is in an area similar to that covered by another college/school, attach correspondence with relevant unit)
    - **Applicable**
    - **Not Applicable**
14. Justification:

Factors influencing this revision include:
1. Increased class size making the current format unsustainable,
2. Reduced numbers of university-owned animals for student instruction,
3. Increased exposure to commonly performed surgical procedures in a more-favorable instructor-to-student format, and,
4. A novel method of improving hands-on student instruction while working to maximize faculty efficiency.

(Include a concise, yet adequate rationale for the addition/revision of the course, citing accreditation, assessments (faculty, graduate, and/or external) where applicable)

15. Resources:

DCS can make this work with current faculty numbers; however, it might provide the opportunity to increase the resident training program in surgery to help support this change.

Increased animal resources will come from working with local humane societies. This will be an expansion of our current interactions with this group and may provide the opportunity to work with similar organizations in the future.

All animal activities will be either covered by an IACUC protocol or will be based on the admission of these animals as patients of the Veterinary Teaching Hospital.

(Indicate whether existing resources such as library materials, classroom/laboratory space, and faculty appointments are adequate to support the proposed addition/revision; if additional resources are required, indicate how such needs will be met, referencing the appropriate level of authorization -- i.e.: Dean -- where necessary; if no additional resources or shifting of resources will be necessary, respond "Not Applicable")

16. Student Learning Outcomes:

Analytical skills:
a. Students will be able to take information presented in class lecture (and lectures from other VMED classes) and develop a over-arching plan for the surgical management of their patients.
b. Students will be able to accurately record information in a medical record in an organized manner that will permit the development of a problem list.
c. Students will be able to perform physical examinations as required to investigate and better define problems as they relate to overall animal health and the pre-operative evaluation of the surgical patient.
d. Students will be able to formulate an appropriate plan for and perform general anesthesia & pain management in their surgical patients.

Technical skills:
Students will be able to perform routine neutering (ovariohysterectomies and orchidectomies) in common domestic species (primarily dogs & cats). Although this is a simple sounding objective, it requires the acquisition of a number of specific skills sets. These include:
a. basic surgical skills [incision, ligation, excision, wound closure],
b. patient evaluation and management [physical examination, anesthetic and analgesic planning, formulation of post-surgical care instructions] and,
c. aseptic surgical techniques [patient preparation, surgeon preparation, sterile / aseptic surgical technique].

Effective Communications:
a. Students will develop comfort with discharge instructions used to help ensure appropriate post-operative care.
b. Students will be introduced to a veterinary medical record for the entry of information into this legal document.

Informed and engaged citizenship:
a. Students will be exposed to the role of veterinary medicine in public health issues as they relate to management of abandoned animals.
b. Students will contribute to the identification of medical concerns in abandoned / surplus animals in the community. This will also expose students to community involvement through the use of their professional skills to improve their communities.
17. Course Content Outline:
See attached syllabus

18. Assignments / Projects:

**QUizzes:**
Quizzes will be given in class or laboratory and will be unannounced. Quiz scores will be combined to make-up 30% of the final grade for the course. Make-up quizzes will only be offered for excused University absences (coordinated through Dr. Angarano's office). Students will have 48 hours after such an absence to make up the quiz.

**Skills Testing:**
Skills testing will be graded on a separate sheet. It is the student's responsibility to maintain their score sheet and to turn it into the course coordinator after completion. Instructions for the skills testing are as follows:
1. Each student is assigned to a member of the surgical staff (faculty or resident). The student is responsible for showing their evaluator each assigned skill for a score.
2. Students may practice until they are ready to present to the instructor; however, it is not recommended to wait until the final week of class to begin skill testing since instructor availability may be limited.
3. Skills testing can not be performed during the laboratory when the skill is being learned.
4. Students may perform one or more skills at any time (time permitting).
5. Each skill will be scored individually. Instructors will give a score based on performance quality. Skills performed with evident mastery will be given the highest score (e.g. 10/10). Skills adequately performed will be given the next highest score (e.g. 8.5/10). An instructor's evaluation will not be debated.
   a. Performances not up to standard will not be scored; however, the instructor will cross out the highest possible score. The student can then review and practice the skill before a second attempt. At the second review, the same guidelines are followed, but the possible score will be reduced (e.g. 8/10 or 5/10).
   b. If the student has an inadequate performance on the third attempt, they will receive a "0" for the skill.
6. Students with 3 or more "0" scores will receive a failing grade for the course.
7. Instrument identification and aseptic technique can be performed for Ms. Ward (MPL technician) or course faculty members.
8. Times for skills testing will be posted in the laboratory. Faculty will post (or provide Ms. Ward) with available times for evaluation. Last minute scrambles are strongly discouraged as instructors may have conflicts. Time extensions will not be given. Plan ahead and manage your time wisely!

**Group Surgical Score:**
This score will be a group score based on the efficiency and effectiveness of the surgical group in preparation for and performance of an elective surgical procedure under direct supervision of the surgical faculty. In most situations, a single score will be assigned to all the group members; however, in situations where an individual member makes a grievous error, the supervising faculty members may decide to only penalize the offending group member.

**Final Examination:**
The final examination will be COMPREHENSIVE. It may contain material from any portion of this course or from any previous veterinary courses (e.g. anatomy, anesthesia). The format for the final examination may use any type of testing format (i.e.
19. Rubric and Grading Scale:

GRADING:
Grades are a reflection of mastery. In this course, grades will be based on in-class quiz scores, demonstration of technical skills (practical examination), scored surgical procedure and a written final examination.

GRADING:
Quiz scores 30%
Skills acquisition - Skill sheet score 30%
- Group surgical score 5%
Final examination 35%
Course total = 100%
Letter grades will be based on the following scale:
A = < 90.1;
B = 80.1 - 90.1;
C = 70.1 - 80.0;
D = 60.1 - 70.0;
F = less than 60.1

Students needing accommodations should have already contacted the Associate Dean & the course coordinator about University accommodations. If this has not been done, then it must be done before the end of the first week of class or no accommodations will be offered.

(List all components of the course grade -- including attendance and/or participation if relevant -- with point totals for each; indicate point totals and ranges or percentages for grading scale; for S/U grading, detail performance expectations for a passing grade.)

20. Justification for Graduate Credit: N/A

(Include a brief statement explaining how the course meets graduate educational standards (i.e.: rigorous standards for evaluation, development of critical thinking and analytical skills, etc.))

(Included below are standard statements regarding course policies. If necessary, a statement may be altered to reflect the academic policies of individual faculty members and/or the academic unit or department, provided that there is no conflict with the Tiger Cub, Faculty Handbook, or any existing University policy.)

POLICY STATEMENTS

Attendance: Although attendance is not required, students are expected to attend all classes, and will be held responsible for any content covered in the event of an absence.

Excused Absences: Students are granted excused absences from class for the following reasons: illness of the student or serious illness of a member of the student’s immediate family, the death of a member of the student’s immediate family, trips for student organizations sponsored by an academic unit, trips for university classes, trips for participation in intercollegiate athletic events, subpoena for a court appearance, and religious holidays. Students who wish to have an excused absence from class for any other reason must contact the instructor in advance of the absence to request permission. The instructor will weigh the merits of the request, and render a decision. When feasible, the student must notify the instructor prior to the occurrence of any excused absences, but in no case shall such notification occur more than one week after the absence. Appropriate documentation for all excused absences is required. Please see the Tiger Cub for more information on excused absences.

Make-Up Policy: Arrangement to make up a missed major examination (e.g., hour exams, mid-term exams) due to properly authorized excused absences must be initiated by the student within one week of the end of the period of the excused absence(s). Except in unusual circumstances, such as the continued absence of the student or the advent of university holidays, a make-up exam will take place within two weeks of the date that the student initiates arrangements for it. Except in extraordinary circumstances, no make-up exams will be arranged during the last three days before the final exam period begins.

Academic Honesty Policy: All portions of the Auburn University student academic honesty code (Title XII) found in the Tiger Cub will apply to university courses. All academic honesty violations or alleged violations of the SGA Code of Laws will be reported to the Office of the Provost, which will then refer the case to the Academic Honesty Committee.

Disability Accommodations: Students who need special accommodations in class, as provided for by the Americans With Disabilities Act, should arrange for a confidential meeting with the instructor during office hours in the first week of classes (or as soon as possible if accommodations are needed immediately). The student must bring a copy of their Accommodation Letter and an Instructor Verification Form to the meeting. If the student does not have these forms, they should make an appointment with the Program for Students with Disabilities, 128B Haley Center, 844-2006 (V/TT).
**INTRODUCTION TO SURGERY**  
VMED 5310 - Spring 2011

**Introduction to Surgery** is intended to give the veterinary student exposure to the basic knowledge and skill required for success in surgery. This course has unique requirements. It is not simply based on knowledge acquisition, but rather the direct application of knowledge to a particular skill set. Without mastery of both the knowledge and the skills, the student will not achieve the objectives of the course.

Discussion (between the instructor and the class) is encouraged. If there are questions about reading materials or presented materials or if there is confusion over terminology or concepts presented, please let us know. In this manner, we can try and explain these items to all the students.

To that end, it is vital to recognize skills are the result of practice and repetition. While it is possible to cram for a final examination, new skills are seldom acquired through last minute “cramming”. Daily practice is needed if skills such as instrument handling, knot tying, and suturing are to be gained. Repetition is the key to much of this course.

**ATTENDANCE:**  
Student are expected to attend all lectures and laboratory sessions. Roll may be taken at the discretion of the instructor(s) and points may be deducted from the final grade for un-excused absences.

**SECTIONS / GROUPS:**  
The class will need to provide the instructor with a list of surgical groups by the end of the first week of class. This will then be divided into “A” and “B” sections for the remainder of the laboratory. These groups are intended to be the surgical groups used in the VMED 5311 course (Surgery Lab) in the fall semester. If there are conflicts that arise, group members may find a need to switch group members before the fall semester. It is important to chose your groups based on complimentary strengths and ability to work together - not simply based on friendship. It is also important that group members have a similar outlook animal use issue for the fall semester.

**CLASS ROOM COURTESY:**  
Please turn off cell phones during lectures. The instructors will try to do the same although clinical duties may prevent this in all situations. Please arrive on time. We will attempt to begin on time and to end on time. Avoid extraneous conversations during lectures. In the laboratory, please be patience is appreciated as we try to help out everyone. This is an personnel intensive course with limited personnel. At times, we may alter the start time of laboratories for groups to maximize instruction. We will try to rotate changes so that they affect everyone equally.

**ACADEMIC HONESTY:**  
All students are expected to abide by the CVM Honor Code and the University Honor Code.

Cheating, submitting an other persons work for a grade or other actions inconsistent with a student in a professional school or with the Honor Code will result in:

1) a reduction of the final grade,
2) the receipt of a failing grade for the class and/or
3) referral to the CVM Honor court / Academic Standards committee for adjudication.

As a part of the CVM Honor Code, all students are responsible for the monitoring and enforcement of the code. If the student body relinquishes this responsibility, then the Code is useless.

Please report any concerns or infractions to the course coordinator, any course instructor or the multi-purpose laboratory technician.

**GRADING:**  
Grades are a reflection of mastery. In this course, grades will be based on quiz scores, demonstration of practical skills and a final examination.

**Quiz scores** will be combined to make-up 25% of the final grade for the course. Make-up quizzes will only be offered for excused University absences (coordinated through Dr. Angarano’s office). Students will have 48 hours after such an absence
to make arrangements to take the quiz.

In-class (lab) quiz scores = 25%
Skills testing = 40%
Final examination = 35%
Total course score 100%

Grading will be as follows:

F The student demonstrates a lack of understanding or effort in mastering the stated objectives. They may be frequently absence without excuse.

D The student demonstrates a limited mastery the stated objectives; this may be true of class work or of laboratory assignments. Absences may be a problem.

C The student shows initial evidence of developing the skills needed for successful mastery of the stated objectives. Strong work ethic and effort outside of class or laboratory is not readily evident.

B The student has achieved a good working understanding of surgical principles and skills. Work is completed on time. Work outside of class / laboratory is evident.

A The student demonstrates exceptional mastery of principles and skills outlined in the objectives.

The final examination will be comprehensive and may contain material from any portion of the course or from previous veterinary courses (e.g. anatomy). The format will most likely be multiple choice but may also consist of short answers, fill-in-the-blank, true / false or false, slide identification or other testing formats.

Students needing accommodations should have already contacted the course coordinator about University accommodations. If this has not been done, then it must be done before the end of the first week of class or no accommodations will be offered.

Skills testing will be graded on a separate sheet. It is your responsibility to maintain their score sheet and to turn it into the course coordinator after completion or by 5 PM, May 09, 2011. Instructions for the skills testing are as follows:

1. Each student is assigned to a member of the surgical staff (faculty or resident). The student is responsible for showing their evaluator each assigned skill for a grade.

2. Students may practice until they are ready to present to the instructor; however, students should NOT wait until the final week of class to begin skill testing.

3. Skills testing will not be done during the laboratory when the skill is being learned.

4. Students may perform one or more skills at any time (time permitting).

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7. Instrument identification and aseptic technique can be performed for Ms. Ward (MPL technician).

8. Faculty will post (or provide Ms. Ward) with available times for evaluation. Last minutes scrambles are strongly discouraged as instructors may have conflicts. Time extensions will not be given. Plan ahead and manage your time wisely!
READING ASSIGNMENTS:
Reading assignments are listed below. I have included relevant pages from both Slatter (Textbook of Small Animal Surgery-3rd) and Fossum (Small Animal Surgery; 3rd). Other information in the form of .pdf files or handouts will be given at the discretion of the instructors. PowerPoint presentations will be available from Blackboard after the lectures.

1. **Suture materials / suture patterns**
   a. Sutures: Slatter: Chapter 18 / Fossum: Chapter 9
   b. Suture pattern: Slatter: Chapter 15 (pp. 219; 216-217 & 220-221) / Fossum: Chapter 9
2. **Aseptic technique**
   a. Sterilization: Slatter: Chapter 11 / Fossum: Chapter 1, 2
   b. Asepsis: Slatter: Chapter 10 / Fossum: Chapter 3, 4, 6, 7
3. **Surgical instruments**
   Slatter: Chapter 14 / Fossum: Chapter 8
4. **Surgical techniques**
   Tissue handling: Slatter: Chapter 15 (pp. 212-218) / Fossum: Chapter 9
   Incision (including electrosurgery & LASER): Slatter: Chapter 15, 17
   Hemostasis: Slatter: Chapter 15 (205-212)
5. **Surgical procedures:**
   Abdominal exploratory / closure: Slatter: Chapter 29 Fossum: Chapter 18 (pp. 317-322)
   Thoracotomy: Slatter: Chapter 27 / Fossum: Chapter 29 (pp. 867-879)
   Hollow organ surgery: Stomach, intestines, bladder, vessels, trachea, etc. See textbook index for specific chapters for more information about specific principles for each organ

Other assignments or resources, such as PowerPoint presentations, videos, laboratory materials, et, may be handed out, posted on Blackboard or otherwise assigned.
<table>
<thead>
<tr>
<th>Lecture / Lab</th>
<th>Date</th>
<th>Time</th>
<th>Topic</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture 1 (M)</td>
<td>03/21</td>
<td>8AM</td>
<td>Course introduction. Surgery basics: Surgeon basics</td>
<td>Tillson</td>
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<tr>
<td>Lecture 2 (W)</td>
<td>03/23</td>
<td>8 AM</td>
<td>Surgery basics: Surgical terminology, surgical instrumentation</td>
<td>Boothe</td>
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<tr>
<td>Lecture 3 (M)</td>
<td>03/28</td>
<td>8 AM</td>
<td>Surgery basics: Surgical knots, suture patterns</td>
<td>Boothe</td>
</tr>
<tr>
<td>Lab 1A (TU)</td>
<td>03/29</td>
<td>1 PM</td>
<td>Basic techniques: Surgeon’s knot, square knot, Hand ties &amp; instrument ties / Suture placement &amp; patterns / Instrument ID &amp; handling / Patient preparation / Aseptic technique (surgeon &amp; patient prep, gowning, packs), Pack preparation</td>
<td>SA faculty</td>
</tr>
<tr>
<td>Lab 1B (TH)</td>
<td>04/01</td>
<td>1 PM</td>
<td>Basic techniques - see above</td>
<td>SA faculty</td>
</tr>
<tr>
<td>Lecture 4 (F)</td>
<td>04/01</td>
<td>8 AM</td>
<td>Surgery basics: Suture materials and surgical needles</td>
<td>Boothe</td>
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<tr>
<td>Lecture 5 (M)</td>
<td>04/04</td>
<td>8 AM</td>
<td>Surgery basics:</td>
<td>Instructor</td>
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<tr>
<td>Lab 2A (TU)</td>
<td>04/05</td>
<td>1 PM</td>
<td>Basic techniques - see above</td>
<td>SA faculty</td>
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<td>Lecture 6 (W)</td>
<td>04/06</td>
<td>8 AM</td>
<td>Surgery basics: Sterilization, disinfection and aseptic technique</td>
<td>Tillson</td>
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<td>Lab 2B (TH)</td>
<td>04/07</td>
<td>1 PM</td>
<td>Basic techniques - see above</td>
<td>SA faculty</td>
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<tr>
<td>Lecture 7 (M)</td>
<td>04/11</td>
<td>8 AM</td>
<td>Surgery techniques: Incision, hemostasis &amp; tissue handling</td>
<td>Tillson</td>
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<tr>
<td>Lab 3A (TU)</td>
<td>04/12</td>
<td>1 PM</td>
<td>Basic techniques - see above</td>
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<tr>
<td>Lab 3B (TH)</td>
<td>04/14</td>
<td>1 PM</td>
<td>Basic techniques - see above</td>
<td>SA faculty</td>
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<tr>
<td>Lecture 8 (M)</td>
<td>04/18</td>
<td>8 AM</td>
<td>Surgical techniques - Wound closure</td>
<td>Tillson</td>
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<tr>
<td>Lab 4A (TU)</td>
<td>04/19</td>
<td>1 PM</td>
<td>Ligatures (Transfixation &amp; circumferential ligatures, Miller’s knot)</td>
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<tr>
<td>Lecture 9 (W)</td>
<td>04/20</td>
<td>8 AM</td>
<td>Surgical techniques - Abdominal exploratory &amp; closure</td>
<td>Boothe</td>
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<tr>
<td>Lab 4B (TH)</td>
<td>04/21</td>
<td>1 PM</td>
<td>Ligatures (Transfixation &amp; circumferential ligatures, Miller’s knot)</td>
<td>SA faculty</td>
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<tr>
<td>Lecture 10 (M)</td>
<td>04/25</td>
<td>8 AM</td>
<td>Surgical techniques - Large animal surgery</td>
<td>LA Faculty</td>
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<tr>
<td>Lab 5A</td>
<td>04/26</td>
<td>1 PM</td>
<td>LA suture techniques / patterns</td>
<td>LA faculty</td>
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<tr>
<td>Lecture 11</td>
<td>04/27</td>
<td>8 AM</td>
<td>Surgical techniques - Viscera / hollow organ</td>
<td>Boothe</td>
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<tr>
<td>Lab 5B</td>
<td>04/28</td>
<td>1 PM</td>
<td>LA suture techniques / patterns</td>
<td>LA faculty</td>
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<tr>
<td>Lecture 12</td>
<td>05/02</td>
<td>8 AM</td>
<td>Surgical techniques - Thoracic cavity</td>
<td>Tillson</td>
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<tr>
<td>Lab 6A</td>
<td>05/03</td>
<td>1 PM</td>
<td>Linea identification / wound closure</td>
<td>SA faculty</td>
</tr>
<tr>
<td>Lab 6B</td>
<td>05/04</td>
<td>1 PM</td>
<td>Linea identification / wound closure</td>
<td>SA faculty</td>
</tr>
<tr>
<td>Skill assessment sheet</td>
<td></td>
<td></td>
<td>Skill assessment sheet is due by 5:00PM May 09, 2010.</td>
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</tr>
<tr>
<td>Exam</td>
<td>05/10</td>
<td>9 AM</td>
<td>Runs until noon; comprehensive written final examination.</td>
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INTRODUCTION TO SURGERY
VMED 5310 - Spring, Year 2

Introduction to Surgery is intended to give the veterinary student exposure to the basic knowledge and skill required for success in surgery. This course has unique requirements. It is not simply based on knowledge acquisition, but rather the direct application of knowledge to a particular skill set. Without mastery of both the knowledge and the skills, the student will not achieve the objectives of the course.

Discussion (between the instructor and the class) is encouraged. If there are questions about reading materials or presented materials or if there is confusion over terminology or concepts presented, please let us know. In this manner, we can try and explain these items to all the students.

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INSTRUCTORS:

<table>
<thead>
<tr>
<th>Michael Tillson, DVM, MS</th>
<th>Harry Boothe, DVM, MS</th>
<th>Ralph Henderson, DVM, MS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diploma, American College of Veterinary Surgeons</td>
<td>Diploma, American College of Veterinary Surgeons</td>
<td>Diploma, American College of Veterinary Surgeons</td>
</tr>
<tr>
<td>Course coordinator</td>
<td>Professor; Small Animal Surgery</td>
<td>Professor; Small Animal Surgery</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ron Montgomery, DVM, MS</th>
<th>Fred Caldwell, DVM, MS</th>
<th>Small Animal Surgical Residents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diploma, American College of Veterinary Surgeons</td>
<td>Diploma, American College of Veterinary Surgeons</td>
<td>- Dr. Brad Matz</td>
</tr>
<tr>
<td>Professor; Small Animal Surgery</td>
<td>Assistant Professor; Equine Surgery</td>
<td>- Dr. Sakthila Jeyakumar</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ms. Kim Ward, LVT</th>
<th>Students can contact instructors through Veterinary Teaching Hospital or via email.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multi-purpose laboratory technician</td>
<td></td>
</tr>
</tbody>
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ATTENDANCE:

- Student are expected to attend all lectures and laboratory sessions.
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SECTIONS / GROUPS:
The class will need to provide the instructor with a list of surgical groups by the end of the first week of class. This will then be divided into “A” and “B” sections for the remainder of the laboratory. These groups are intended to be the surgical groups used in the VMED 5311 course (Surgery Lab) in the fall semester. If conflicts arise, group members may need to switch group members before the fall semester. It is important to chose a surgical group based on complimentary strengths and ability to work together - not simply based on friendship. It is also important for group members to have a similar outlook animal-use issues for the fall semester.

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- Please turn off cell phones during lectures. The instructors will try to do the same although clinical duties may prevent this in all situations.
Please arrive on time. We will attempt to begin on time and to end on time.

Avoid extraneous conversations during lectures. In the laboratory, please be patience is appreciated as we try to help out everyone.

This is an personnel intensive course with limited personnel. At times, we may alter the start time of laboratories for groups to maximize instruction. We will try to rotate changes all are affected equally.

ACADEMIC HONESTY:
Students at the College of Veterinary Medicine are bound by the Student Code of Professional Ethics (Honor Code). Violations of the honor code will be reported to the Chancellor or the Clerk of the CVM Honor Court.

As a part of the CVM Honor Code, all students are responsible for the monitoring and enforcement of the code. If the student body relinquishes this responsibility, then the honor code is useless. Concerns or violations should be reported to the Chancellor or Clerk of the Honor Court or to the course coordinator, any course instructor or the multi-purpose laboratory technician.

Cheating, submitting an other persons work for a grade or other actions considered to be inconsistent with a student in a professional school or in violation our honor code may, in addition to being reported to the CVM Honor Court, result in:
1) a reduction of the final grade,
2) the receipt of a failing grade for the class and/or
3) referral to the CVM Honor court / Academic Standards committee for adjudication.

GRADING:
Grades are a reflection of mastery. In this course, grades will be based on in-class quiz scores, demonstration of technical skills (practical examination), scored surgical procedure and a written final examination.

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quiz scores</td>
<td>30%</td>
</tr>
<tr>
<td>Skills acquisition</td>
<td></td>
</tr>
<tr>
<td>- Skill sheet score</td>
<td>30%</td>
</tr>
<tr>
<td>- Group surgical score</td>
<td>5%</td>
</tr>
<tr>
<td>Final examination</td>
<td>35%</td>
</tr>
<tr>
<td>Course total</td>
<td>= 100%</td>
</tr>
</tbody>
</table>

Letter grades will be based on the following scale:
- A = < 90.1;
- B = 80.1 - 90.1;
- C = 70.1 - 80.0;
- D = 60.1 - 70.0;
- F = less than 60.1

Students needing accommodations should have already contacted the Associate Dean & the course coordinator about University accommodations. If this has not been done, then it must be done before the end of the first week of class or no accommodations will be offered.

Quizzes are not scheduled and will be given at the beginning or the end of class. Quizzes are comprehensive (i.e. may cover material from any of the lectures, laboratory sessions or assigned reading materials). Missed quizzes will not be counted against a student with an excused absence; however, make-up quizzes are not given for un-excused absences.

The final examination will be comprehensive and may contain material from any portion of the course or from previous veterinary courses (e.g. anatomy). The format will most likely be multiple choice but may also consist of short answers, fill-in-the-blank, true / false or false, slide identification or other testing formats.

Skills testing will be graded on a separate sheet. It is your responsibility to maintain their score sheet and to turn it into the course coordinator after completion or by the assigned deadline.

Instructions for the skills testing are as follows:
1. Each student is assigned to a member of the surgical staff (faculty or resident). The student is responsible for showing their evaluator each assigned skill for a grade.
2. Students may practice until they are ready to present to the instructor; however, students should NOT wait until the
final week of class to begin skill testing.

3. Skills testing will not be done during the laboratory when the skill is being learned.

4. Students may perform one or more skills at any time (time permitting).

5. Each skill will be graded individually. Instructors will give a grade based on performance quality. Skills performed with evident mastery will be given the highest grade (e.g. 10/10). Skills adequately performed will be given the next highest grade (e.g. 8.5/10). An instructor’s score will not be debated.
   a. Performances not up to standard will not be graded; however, the instructor will cross out the highest possible score. The student can then review and practice the skill before a second attempt. At the second review, the same guidelines are followed, but the possible score will be reduced (e.g. 8 /10 or 5/10).
   b. If the student has an inadequate performance on the third attempt, they will receive a “0” for the skill.

6. Students with 3 or more “0” scores will receive a failing grade for the course.

7. Instrument identification and aseptic technique can be performed for Ms. Ward (MPL technician).

8. Faculty will post (or provide Ms. Ward) with available times for evaluation. Last-minute scrambles are strongly discouraged as instructors may have conflicts. Time extensions will not be given. Plan ahead and manage your time wisely!

READING ASSIGNMENTS:
Reading assignments are listed below. I have included relevant pages from both Slatter (Textbook of Small Animal Surgery-3rd) and Fossum (Small Animal Surgery; 3rd).

1. Suture materials / suture patterns
   a. Sutures; Slatter: Chapter 18 / Fossum: Chapter 9
   b. Suture pattern: Slatter: Chapter 15 (pp. 219; 216-217 & 220-221) / Fossum: Chapter 9

2. Aseptic technique
   a. Sterilization: Slatter: Chapter 11 / Fossum: Chapter 1, 2
   b. Asepsis: Slatter: Chapter 10 / Fossum: Chapter 3, 4, 6, 7

3. Surgical instruments Slatter: Chapter 14 / Fossum: Chapter 8

4. Surgical techniques
   Tissue handling; Slatter: Chapter 15 (pp. 212-218) / Fossum: Chapter 9
   Incision (including electroscopy & LASER); Slatter: Chapter 15, 17
   Hemostasis: Slatter: Chapter 15 (205-212)

5. Surgical procedures:
   Abdominal exploratory / closure Slatter: Chapter 29 Fossum: Chapter 18 (pp. 317-322)
   Thoracotomy: Slatter: Chapter 27 / Fossum: Chapter 29 (pp. 867-879)
   Hollow organ surgery; Slatter: Chapter 15 (pp. 212-218) / Fossum: Chapter 9
   Stomach, intestines, bladder, vessels, trachea, etc. See textbook index for more information about specific principles for each organ

Other information in the form of .pdf files or handouts will be given at the discretion of the instructors. PowerPoint presentations will be available on-line after lectures. Resources, such as PowerPoint presentations, videos, laboratory materials, et, may be handed out, posted on-line or otherwise made available to students.
## Lecture, Laboratory and Exam Schedule

<table>
<thead>
<tr>
<th>Lecture / Lab</th>
<th>Date</th>
<th>Time</th>
<th>Topic</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture 1</td>
<td>01/09/12</td>
<td>8AM</td>
<td>Surgery basics: Introduction, surgical attire, personnel preparation</td>
<td>Tillson</td>
</tr>
<tr>
<td>Lecture 2</td>
<td>01/11/12</td>
<td>8 AM</td>
<td>Surgery basics: Surgical terminology, surgical instrumentation</td>
<td>SA Faculty</td>
</tr>
<tr>
<td>Lecture 3</td>
<td>01/18/12</td>
<td>8 AM</td>
<td>Surgery basics: Surgical knots, suture patterns</td>
<td>SA Faculty</td>
</tr>
<tr>
<td>Lecture 4</td>
<td>01/20/12</td>
<td>8 AM</td>
<td>Surgery basics: Suture materials and surgical needles</td>
<td>SA Faculty</td>
</tr>
<tr>
<td>Lecture 5</td>
<td>01/23/12</td>
<td>8 AM</td>
<td>Surgery basics: Suture material &amp; surgical needles</td>
<td>Instructor</td>
</tr>
<tr>
<td>Lecture 6</td>
<td>01/25/12</td>
<td>8 AM</td>
<td>Surgery basics: Sterilization, disinfection and aseptic technique</td>
<td>SA Faculty</td>
</tr>
<tr>
<td>Lecture 7</td>
<td>01/30/12</td>
<td>8 AM</td>
<td>Surgery basics: Critical thinking / Problem solving in surgery</td>
<td>SA Faculty</td>
</tr>
<tr>
<td>Lecture 8</td>
<td>02/01/12</td>
<td>8 AM</td>
<td>Surgical techniques - Incision, hemostasis&amp; tissue handling</td>
<td>SA Faculty</td>
</tr>
<tr>
<td>Lecture 9</td>
<td>02/03/12</td>
<td>8 AM</td>
<td>Surgical techniques</td>
<td>SA Faculty</td>
</tr>
<tr>
<td>Lecture 10</td>
<td>02/06/12</td>
<td>8 AM</td>
<td>Surgical techniques - Methods of wound closure</td>
<td>Boothe</td>
</tr>
<tr>
<td>Lecture 11</td>
<td>02/10/12</td>
<td>8 AM</td>
<td>Surgical techniques - Surgical principles unique to large animal surgery</td>
<td>LA Faculty</td>
</tr>
<tr>
<td>Lecture 12</td>
<td>02/13/12</td>
<td>8 AM</td>
<td>Surgical techniques - Surgery of the abdominal cavity</td>
<td>SA Faculty</td>
</tr>
<tr>
<td>Lecture 13</td>
<td>02/15/12</td>
<td>8 AM</td>
<td>Surgical techniques - Surgery of visceral organs</td>
<td>SA Faculty</td>
</tr>
<tr>
<td>Lecture 14</td>
<td>02/17/12</td>
<td>8 AM</td>
<td>Surgical techniques - Surgery of hollow organs</td>
<td>SA Faculty</td>
</tr>
<tr>
<td>Lecture 15</td>
<td>02/20/12</td>
<td>8 AM</td>
<td>Surgical techniques - Surgery of the thoracic cavity</td>
<td>SA Faculty</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lab 1</th>
<th>Week 2</th>
<th>1 PM</th>
<th>Basic techniques:</th>
<th>SA faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Surgeon’s knot, square knot / instrument &amp; hand ties</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Suture pattens (continuous, interrupted, buried)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Instrument ID &amp; handling</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Aseptic technique (surgeon &amp; patient, gowning, pack preparation)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lab 2</th>
<th>Week 3</th>
<th>1 PM</th>
<th>Basic techniques - see above</th>
<th>SA faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lab 3</td>
<td>Week 4</td>
<td>1 PM</td>
<td>Basic techniques - see above</td>
<td>SA faculty</td>
</tr>
<tr>
<td>Lab 4</td>
<td>Week 5</td>
<td>1 PM</td>
<td>Ligatures (Transfixation &amp; circumferential ligatures, Miller’s knot)</td>
<td>SA faculty</td>
</tr>
<tr>
<td>Lab 5</td>
<td>Week 6/7</td>
<td>1 PM</td>
<td>Cadaveric wound closure</td>
<td>SA faculty</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Labs 6-15</th>
<th>THURSDAYS</th>
<th></th>
<th>Elective surgical procedures (see schedule for assigned times)</th>
<th>SA faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lab EQ</td>
<td>THURSDAYS</td>
<td></td>
<td>LA suture techniques / patterns (runs concurrently with Elective procedures for 1-2 sessions)</td>
<td>LA faculty</td>
</tr>
</tbody>
</table>

Skill assessment sheet is due by **5:00PM March XX, 20XX**.

**FINAL Exam**  
9 AM  
Runs until noon; comprehensive written final examination.
# Surgical Skills Assessment Sheet

**Name:**

**Instructions:**
1. Each student must demonstrate proficiency with each skill. Students should continue to practice until they are ready to present to the instructor.
2. Each student will demonstrate for their assigned instructor.
3. Each skill will be graded individually. Instructors will base the grade on performance quality. Skills performed with evident mastery will be given the highest grade (e.g. 10/10). Skills adequately performed will be given the next highest grade (e.g. 8.5/10). Performances not up to standard will not be graded; however, the instructor will cross out the highest possible score. The student can then review and practice the skill before a second attempt. At the second review, the same guidelines are followed, but the possible score will be reduced (e.g. 8/10 or 5/10). A student with an inadequate performance on the third attempt will receive a “0” for the skill.
4. Students with 3 or more “0” scores will receive a failing grade for the course.
5. Instrument identification and aseptic technique skills may be demonstrated for the MPL technician.
6. Scheduled laboratory time will not be used for skill assessments.

<table>
<thead>
<tr>
<th>Aseptic technique</th>
<th>Examiner</th>
<th>Score:</th>
<th>/ 40 total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patient draping</td>
<td></td>
<td>10</td>
<td>8.5</td>
</tr>
<tr>
<td>Gowning</td>
<td>10</td>
<td>8.5</td>
<td>5</td>
</tr>
<tr>
<td>Gloving - closed (with gown)</td>
<td>10</td>
<td>8.5</td>
<td>5</td>
</tr>
<tr>
<td>Gloving - open</td>
<td>5</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Gown folding and wrapping</td>
<td>5</td>
<td>4</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Basic skill demonstration</th>
<th>Examiner</th>
<th>Score:</th>
<th>/ 75 total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hand tie (one-hand or two-hand)</td>
<td>10</td>
<td>8.5</td>
<td>5</td>
</tr>
<tr>
<td>Placement of 3 skin sutures (simple interrupted)</td>
<td>10</td>
<td>8.5</td>
<td>5</td>
</tr>
<tr>
<td>Simple continuous suture pattern</td>
<td>10</td>
<td>8.5</td>
<td>5</td>
</tr>
<tr>
<td>Buried knot - interrupted or beginning a continuous pattern</td>
<td>10</td>
<td>8.5</td>
<td>5</td>
</tr>
<tr>
<td>Buried knot - ending a continuous pattern</td>
<td>10</td>
<td>8.5</td>
<td>5</td>
</tr>
<tr>
<td>Inverting suture pattern (indicate pattern used)</td>
<td>5</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Mattress suture (H or V)</td>
<td>5</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Surgeon’s knot</td>
<td>5</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Pedicle transfixation suture</td>
<td>5</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Three clamp pedicle ligation</td>
<td>5</td>
<td>4</td>
<td>3</td>
</tr>
</tbody>
</table>

**Instrument identification**

Examiner will place the total number of correctly identified instruments in the score column

**Skill Assessments - Score Total:**

(40% of course grade)