

**General Pathology 601 for
Dental Students, 6 credits**

GENERAL COURSE INFORMATION

Course Number & Title: PATH 601 Dental General Pathology
Academic Year: 2016
Semester: Spring
Credit Hours: 6.0
Contact Hours & Type: 84 (Lecture and Laboratory)

COURSE DIRECTOR

Course Co-directors: Dr. Kimberly Sanford, Dr. Hope Richard, Dr. Steven Smith
Department: Pathology, School of Medicine
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Office Hours/Scheduling Appointment: By Appointment Only

Course Co-Directors



Transfusion Medicine

[Kimberly W. Sanford, MD](#)

Assistant Professor of Pathology
Medical Director of Transfusion Medicine
Medical Director of Stony Point Laboratory
Medical School: Virginia Commonwealth University, Richmond, VA
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Hope Richard, MD, PhD

Medical School: University of South Alabama College of Medicine
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Surgical Pathology

[Steven Christopher Smith, MD, PhD](#)

Assistant Professor of Pathology
Fellowship (GU Pathology), Cedars-Sinai Medical Center
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Clinical Specialties: Genitourinary, Bone and Soft Tissue, and
Gynecologic Pathology
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Other Course Faculty:

Dr. James Burns; Dr. Davis Massey, Dr. John Svirsky, Dr. Margaret Grimes, Dr. David Wilkinson, Dr. Roger Riley, Dr. Melissa Contos, Dr. Kathy Palmer and Dr. Ema Dragoescu

The Instructor's Role

Your lab instructor's role is that of a facilitator, discussing and clarifying difficult points, defining terminology, and motivating your active involvement. For further information, clarification and to answer any questions you may have at any time about this course and its lab supplement, please contact the course Directors.

Americans with Disabilities Act Statement

"Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990 require Virginia Commonwealth University to provide an 'academic adjustment' and/or a 'reasonable accommodation' to any individual who advises us of a physical or mental disability. If you have a physical or mental limitation that requires and academic adjustment or an accommodation, please arrange a meeting with us (the Assistant Dean of Students) at your earliest convenience. Additionally, if your coursework requires you to work in a lab environment, you should advise the (course director) instructor or department chairperson of any concerns you

A student with a disability is encouraged to contact the Assistant Dean of Students as soon as possible to ensure appropriate and timely response to requests for accommodations. Formal identification and determination of accommodations must be made with the Office of Services for Students with Disabilities, located on the MCV campus. All students wishing to receive accommodations are required to provide to the course director an official memo indicating the requested academic adjustments or accommodations. Any accommodation related to examinations must be presented to the course director at least four days prior to the examination. Request for accommodations not related to examinations must be presented to the course director within two weeks of the initiation of the course.

Conduct/Ethics

The course is governed by the VCU Honor Code, the *VCU School of Dentistry Guidelines Governing Examinations and Laboratory Assignments* (available on School of Dentistry intranet), and the *American Dental Association Principles of Ethics and Code of Professional Conduct* (available on the American Dental Association web site www.ada.org) or the *Principles of Ethics of the American Dental Hygiene Association* (www.ada.org). Students are responsible for understanding the content of these documents.

Technical Standards for Dental Education Programs

This document defines the nonacademic criteria for advancement through and graduation from the dental (DDS), dental hygiene (BS), or advanced dental education (certificate or degree) programs at the Virginia Commonwealth University School of Dentistry. This document is available on the School of Dentistry intranet.

ABOUT THIS COURSE

Pre-requisites: Successful passage of Microscopic Anatomy (Histology)

Course Description

This course has been designed to provide you with a practical approach to general and systemic pathology. The lectures and laboratories provide information and practice needed to develop an introductory level of proficiency in formulating differential diagnoses through the interpretation of gross and microscopic changes in various organs and their correlation with clinical, radiologic and laboratory tests. Emphasis will be placed on pathogenetic mechanisms and the importance of correlating pathologic changes with clinical cases, images and laboratory findings. This course will consolidate and expand on your fund of knowledge as we go through each organ system in this course.

With the 2 small group sessions the reading material is found in Robbins and the questions are derived from this material. You should bring the text book or access the text through the VCU library. We will first meet in the large lecture hall as a group so we can orient you to the clinical cases then you will proceed to the smaller rooms to work in small groups to answer the case based questions. You each will be assigned a team of 6-8 students, each team will work their way through the cases that include clinical data, imaging studies, lab values and images of gross and microscopic specimens that illustrate the pathologic mechanisms. We will then come back to the lecture hall and I will randomly select a group to give the class a 10 minute student led discussion of these cases.

The gross lab sessions will be held in the Anatomy Lab in Sanger Hall on the 10th floor. The class will be divided into thirds and you will only report to ONE gross lab session which will be assigned ahead of time. I will review the gross specimens with each group and there will be a short quiz following this session.

Overall, the goals of the labs are to build your knowledge, skills and abilities in:

1. Developing a medical vocabulary in order to converse with other health professionals.
2. Synthesizing lecture material with clinical information, laboratory, and radiographic examinations of systemic diseases and their etiology, pathogenesis and prognosis.

Course Purpose Statement and Learning Objectives

Upon completion of this course you will be able to:

1. Formulate an orderly differential diagnosis of possible causes for a patient's problem, including the correct etiology, plus the other most likely and pertinent etiologies.
2. Prioritize the list of possible causes in your differential diagnosis based on clinical history, physical examination findings, radiographs and laboratory work.
3. Suggest further medical tests to help distinguish between your different diagnostic choices.
4. Explain how this disease will affect your dental practices.
5. Describe the basic pathogenesis of various disease entities.
6. Recognize general medical terms utilized in pathology.

Competency Outcome Evaluations

Evaluation Description	Competency Number(s)	Evaluation Type
5 written examinations 1 written quiz on gross specimens	2-25.3: competent to apply basic biological principles to clinical oral care 2-27.1: competent to manage medical emergencies	Written examination
Laboratory Oral & Written Presentations of diseases entities emphasizing pathogenesis and clinicopathologic correlation (involving problem solving using differential diagnosis techniques)	2-22: Recognize the role of life-long learning and self-assessment in maintaining competency 2-23: competent to use critical thinking and problem solving related to the comprehensive care of patients 2-24: competent to use information technology resources in contemporary dental practice 2-25.3	Oral examination/presentation and Written reports
	2-22 2-23 2-24 2-25.3	

Changes Made Since Last Course Offering:

The course directors were replaced with three co-course directors. Additionally, the laboratory cases were replaced with more relevant examples from the oral cavity. There will also be 2 small group sessions with case based vignettes and questions for the small groups to work together to answer. There will be a 10 minute student led discussion for each of these cases to review the cases as a class. We will also have a gross specimen lab where the instructor will review a selection of gross specimens with the class. A short quiz will follow the gross lab session.

COURSE BOOKS & MATERIALS

Textbook: Required Estimated Cost: \$99.95

Kumar, V. (Ed.), Cotran, R. S., Robbins, S. L. (2007). *Basic Pathology* (9th ed.). Philadelphia, PA: W.B. Saunders. To enhance the meaning of the lectures, the student is expected to read the pertinent text material **PRIOR** to the lecture.

COURSE SCHEDULE

ASSIGNMENTS, EXAMS, AND GRADING

Instructional Methods

- 80% **lecture**
- 20% **presentations**—presentations of cases by students and written documents
- 100% **total**

Grading Policy/Grading Scale

Letter grades are assigned according to the following schedule:

A 90-100

B 80-89.9

C 70-79.9

F below 70

Evaluation & Examinations

5 written examinations from the lecture material, laboratory cases and textbook assignments. These exams will comprise 80% of your grade. The other 20% will be from the laboratory cases assigned to you.

If the student fails to show up for an examination, a grade of zero will be given unless excused by any of the course directors prior to the examination. The final grade will be calculated using the following formula:

Exam #1=15%

Exam #2=15%

Exam #3=15%

Exam #4=15%

Exam #5=15% Final Exam Period

Gross Lab Quiz = 5%

Lab presentations and written documents =20%

The 5th exam will consist of previous and present material. The dates of the examinations are fixed and will **NOT** be changed. Please complete evaluation upon completion of this course. Thank you.

Laboratory Cases: Cases will be posted on your Blackboard site with enough time for you to analyze the cases. Clear instructions will be presented via your Blackboard "Announcements" page.

1. Some of these cases will need to be worked up as independent "open-book" exercises BUT without the help of faculty. Your work-up should be limited to a one-page written report to be turned into Dr. Svirsky or Dr. Burns at the beginning of the case's review sessions. Select students will be randomly asked to present their written report to their classmates at these review sessions.

2. Some of these cases will be worked up in small group discussions, either in person or online. The consensus of the group will be presented either online or via their spokesperson to the entire class.

DENTAL GENERAL PATHOLOGY (PATH 601)

May 2016

CLASS SCHEDULE

All but a few special classes will be held in Lyons 424 (see Schedule below). Attendance is mandatory since much of the “learning is seeing” the projected pathology. The required textbook for the course is “Robbins Basic Pathology, 9th Edition” by Kumar. The textbooks are available in the VCU/MCV bookstore. You’ll enjoy this course as well as learn a lot of useful material. Should you have any questions, contact Dr. Kim Sanford (804-828-2745).

General Pathology 601 for Dental Students
May 16 - June 24, 2016
Monday-Friday

Lecture, Lab, & Exam Schedule

Date	Location	Lecture Time & Required Reading	Type	Instructor(s)
Mon. May 16	Lyons 424	8:00-10:00 Chapter 1: Cell Injury & Death, & Adaptations	Lecture	Dr. C. Clevenger charles.clevenger@vcuhealth.org 804-828-9749
		10:00-11:00 Chapter 2: Acute Inflammation	Lecture	Dr. D. Massey hugh.massey@vcuhealth.org 804-828-9739
		11:00-12:00 Lab Values	Lecture	Dr. K. Sanford kimberly.sanford@vcuhealth.org 804-828-2745
Tues. May 17	Lyons 424	8:00-9:00 Chapter 2: Chronic Inflammation	Lecture	Dr. D. Massey hugh.massey@vcuhealth.org 804-828-9739
		9:00-10:00 Chapter 2: Tissue Repair: Regeneration, Healing, & Fibrosis		
		10:00 - Independent individual work-up of Cases #1, 2 & 3		
Wed. May 18	Lyons 424	8:00-10:00 Chapter 4: Disorders of the Immune System HIV/AIDS	Lecture	Dr. J. Svirsky jasvirsk@vcu.edu 804-828-0547
	Lyons 424	10:00-12:00 Chapter 3: Hemodynamic Disorders, Thrombosis, & Shock	Lecture	Dr. K. Sanford kimberly.sanford@vcuhealth.org 804-828-2745
Thurs. May 19	Lyons 424	9:00-11:00 Small Group: Inflammation, Repair, Necrosis/Pulm Infarct	Lab	Dr. K. Sanford kimberly.sanford@vcuhealth.org 804-828-2745
	Lyons 424	11:00-12:00 Chapter 4: Disorders of the Immune System	Lecture	Dr. K. Sanford kimberly.sanford@vcuhealth.org 804-828-2745
Fri. May 20	Lyons 424	9:00-10:00 Chapter 4: Disorders of the Immune System	Lecture	Dr. K. Sanford kimberly.sanford@vcuhealth.org 804-828-2745
	Lyons 424	10:00 – Presentations to class of Cases #1, 2 & 3		Dr. J. Svirsky jasvirsk@vcu.edu 804-828-0547

Mon May 23	Lyons 424 and Lyons 442	Exam #1: 9:00 – 11:00		
Tues. May 24	Lyons 424	8:00-9:00 Chapter 10: The Heart (1) Morphological Responses of the Cardiovascular System Ischemic Heart Disease	Lecture	Dr. C. Uram-Tuculescu Cora.Uram-Tuculescu@vcuhealth.org 804-628-1293
	Lyons 424	9:00-10:00 Chapter 10: The Heart (2) Rheumatic and other Valve Disease Congenital Heart Disease 10:00 – Presentations to class of Cases #4 & 17	Lecture	Dr. C. Uram-Tuculescu Cora.Uram-Tuculescu@vcuhealth.org 804-628-1293 Dr. J. Burns jcburns@vcu.edu 804-828-1778
Wed. May 25	Lyons 424	8:00-10:00: Chapter 5: Neoplasia 10:00 – Presentations to class of Cases #5 & 22	Lecture	Dr. J. Burns jcburns@vcu.edu 804-828-1778 Dr. J. Burns jcburns@vcu.edu 804-828-1778
Thurs. May 26	Lyons 424	8:00-9:00: Chapter 9: The Blood Vessels	Lecture	Dr. D. Massey hugh.massey@vcuhealth.org 804-828-9739
	Lyons 424	9:00-11:00 Small group: Heart, Neoplasia, Environmental	Lab	Dr. K. Sanford kimberly.sanford@vcuhealth.org 804-828-2745
Fri. May 27	Lyons 424	8:00-10:00: Chapter 7: Environmental and Nutritional Diseases (1 & 2) 10:00 – Presentations to class of Cases #16 & 20	Lecture	Dr. D. Wilkinson david.wilkinson@vcuhealth.org 804-828-0184 Dr. J. Svirsky jasvirsky@vcu.edu 804-828-0547
Mon. May 30		Memorial Day		
Tues. May 31		STUDY DAY		
Wed. June 1	Lyons 424 and Lyons 442	Exam #2: 9:00 – 11:00		
Thurs. June 2	Lyons 424	8:00-9:00 Chapter 11: The Hematopoietic & Lymphoid System	Lecture	Dr. R. Riley roger.riley@vcuhealth.org 804-828-3338
		9:00-10:00 Chapter 11: The Hematopoietic & Lymphoid System	Lecture	Dr. R. Riley roger.riley@vcuhealth.org 804-828-3338
Fri. June 3	Lyons 424	8:00-9:00 Chapter 3: The Coagulation System 9:00 – Presentations to class of Cases #6 & 7	Lecture	Dr. R. Riley roger.riley@vcuhealth.org 804-828-3338 Dr. J. Burns jcburns@vcu.edu 804-828-1778

Mon. June 6	Lyons 424	8:00-9:00 Chapter 12: The Lung (1)	Lecture	Dr. C. Palmer Catherine.Palmer@vcuhealth.org
		9:00-10:00 Chapter 12: The Lung (2)	Lecture	Dr. C. Palmer Catherine.Palmer@vcuhealth.org
		10:00 – Presentations to class of Case #8		Dr. J. Svirsky jasvirsky@vcu.edu 804-828-0547
Tues. June 7	Lyons 424	8:00-9:00 Chapter 13: The Kidney & Its Collecting System (1)	Lecture	Dr. D. Massey hugh.massey@vcuhealth.org 804-828-9739
		9:00-10:00 Chapter 13: The Kidney & Its Collecting System (2)	Lecture	Dr. D. Massey hugh.massey@vcuhealth.org 804-828-9739
		10:00 – Presentations to class of Case #9		Dr. J. Burns jcburns@vcu.edu 804-828-1778
Wed. June 8		STUDY DAY		
Thurs. June 9	Lyons 424 and Lyons 442	Exam #3: 9:00 – 11:00		
Fri. June 10	Lyons 424	8:00-9:00 Chapter 14: GI Tract (1)	Lecture	Dr. M. Contos melissa.contos@vcuhealth.org 804-828-9739
		9:00-10:00 Chapter 14: GI Tract (2)	Lecture	Dr. M. Contos melissa.contos@vcuhealth.org 804-828-9739
		10:00 – Presentations to class of Cases #11, 18 & 19		Dr. J. Svirsky jasvirsky@vcu.edu 804-828-0547
		11:00 – EXAM 3 Review		Dr. Sanford
Mon June 13	Lyons 424	8:00-9:00 Chapter 15: The Liver, Gallbladder & Biliary Tract	Lecture	Dr. H. Richard hope.richard@vcuhealth.org 804-628-1690
		9:00-10:00 Chapter 16: The Pancreas	Lecture	Dr. H. Richard hope.richard@vcuhealth.org 804-628-1690
	Sanger 10 th floor Labs	10:00-12:00 Gross Lab		Dr. K. Sanford kimberly.sanford@vcuhealth.org 804-828-2745
Tues. June 14	Lyons 424	8:00-9:00 Chapter 18: The Breast	Lecture	Dr. C. Palmer Catherine.Palmer@vcuhealth.org
		9:00-10:00 Chapter 18: The Female Genital System	Lecture	Dr. D. Massey hugh.massey@vcuhealth.org 804-828-9739
	Sanger 10 th floor Labs	10:00-12:00 Gross Lab		Dr. K. Sanford kimberly.sanford@vcuhealth.org 804-828-2745
Wed. June 15	Lyons 424	8:00-9:00 Chapter 19: The Endocrine System (1)	Lecture	Dr. S. Smith steven.c.smith@vcuhealth.org 804-828-4918
		9:00-10:00 Chapter 19: The Endocrine System (2)	Lecture	Dr. S. Smith steven.c.smith@vcuhealth.org 804-828-4918
	Sanger 10 th floor Labs	10:00-12:00 Gross Lab Take home gross lab quiz after 12 pm	Lab	Dr. K. Sanford kimberly.sanford@vcuhealth.org 804-828-2745

Thurs. June 16	Lyons 424	9:00-10:00 Chapter 17: The Male Genital System	Lecture	Dr. D. Wilkinson david.wilkinson@vcuhealth.org 804-828-0184
				10:00 – Presentations to class of Cases #10, 12 & 23
Fri. June 17	Lyons 424 and Lyons 442	Exam #4: 9:00 – 11:00		
Mon. June 20	Lyons 424	8:00-9:00 Chapter 20: The MS System (1)	Lecture	Dr. H. Richard hope.richard@vcuhealth.org 804-628-1690 Dr. S. Smith steven.c.smith@vcuhealth.org 804-828-4918
		9:00-10:00 Chapter 20: The MS System (2)	Lecture	Dr. H. Richard hope.richard@vcuhealth.org 804-628-1690 Dr. S. Smith steven.c.smith@vcuhealth.org 804-828-4918
		10:00 – Presentations to class of Cases #13, 24 & 21		Dr. J. Svirsky jasvirsk@vcu.edu 804-828-0547
		11:00 – EXAM 4 Review		
Tues. June 21	Lyons 424	8:00-9:00 Chapter 23: The Skin (1)	Lecture	Dr. S. Smith steven.c.smith@vcuhealth.org 804-828-4918
		9:00-10:00 Chapter 23: The Skin (2)	Lecture	Dr. S. Smith steven.c.smith@vcuhealth.org 804-828-4918
		10:00 – VCU Pemphigus Patient Presenter No Case Presentations		Dr. J. Svirsky jasvirsk@vcu.edu 804-828-0547
Wed. June 22	Lyons 424	8:00-9:00 Chapter 22: Nervous System (1)	Lecture	Dr. H. Richard hope.richard@vcuhealth.org 804-628-1690
		9:00-10:00 Chapter 22: Nervous System (2)	Lecture	Dr. H. Richard hope.richard@vcuhealth.org 804-628-1690
		10:00 – Presentations to class of Cases #15, 25 & 14		Dr. J. Svirsky jasvirsk@vcu.edu 804-828-0547
Thurs. June 23		STUDY DAY		
Fri. June 24	Lyons 424 and Lyons 442	Exam #5: 9:00 – 11:00		

Course Remediation

The course director, whenever possible, will assist in determining the nature of a student's problem and where feasible, provide supplemental instruction while the course is in progress; however, it is recognized that this may be logistically impossible in some situations.

Tutoring Policy

A student who is not performing adequately, or who is failing the course, must meet with a course director to arrange for review of course information or laboratory requirements. The decision to recommend a tutor can only be made by a course director following discussion with the student.

For Courses that result in final grades of A, B, C, F

A student earning a grade of "F" must perform remediation or repeat the course. Additionally, for a student earning a grade of F, remediation or repetition of the course will not be undertaken until approval is granted by the Academic Performance Committee (APC). APC will also set a deadline for completion of the remediation or repetition of this course. The method of course repetition will be determined by the course director. The method of remediation available for a specific student shall be the prerogative of the course director. Remediation may include, but is not limited to: 1) re-examination, 2) additional assignments, 3) repetition of part or all of the course.

****In addition to this course's academic criteria, you must meet all School of Dentistry Technical***

Standards. https://intranet.dentistry.vcu.edu/docs/technical_standards.pdf

Failure to meet Technical Standards will result in a course failure.

COURSE-SPECIFIC POLICIES

Attendance/Absentee Policy

Attendance is required because much of the class is interactive and discussion oriented. The following policies apply to unexcused absences and laboratory attendance:

- 3 unexcused absences will result in lowering of the grade by one letter
- 6 unexcused absences will result in lowering of the grade by two letters
- 9 absences will result in failing the course
- Failure to attend labs could result in the reduction of the cumulative course numerical score by up to 5 points

References

1. Dorland. (2000). Dorland's Illustrated Medical Dictionary. Philadelphia, PA: W.B. Saunders
2. McPherson, R.A., Pincus, M.: (2012). Henry's Clinical Diagnosis and Management by Laboratory Methods. 22nd ed, Elsevier. Philadelphia, PA.
3. Cecil Textbook of Medicine; W.B. Saunders. General medicine textbook, easy to understand.
4. Harrison's Principles of Internal Medicine; McGraw Philadelphia, PA. General medical textbook more detailed in descriptions.
5. Rose, L., & Kaye, D. (). Internal Medicine for Dentistry. St. Louis, MO: CV Mosby. Discusses medical conditions with emphasis on dental implications.
6. Neville, Damm, Allen, & Bouquot. (1995). Oral and maxillofacial pathology. Philadelphia, PA: WB Saunders. Good oral pathology text with clinical information. Has great chapters in back of text describing lesions based on their gross or radiograph appearance. **This will be your textbook in D2 Oral Pathology.**

UNIVERSITY & SCHOOL POLICIES

All courses, students, and faculty are governed by and accountable to the following University and School policies. Students and faculty are strongly encouraged to review all policies at the beginning of each semester. Enrollment and participation in a School of Dentistry course indicates your awareness of these policies. Policies are available on the web at the two links below.

University Policies

<http://www.provost.vcu.edu/faculty/syllabi.html>

1. VCU Email Policy
2. VCU Honor System: Plagiarism and Academic Integrity
3. Student Conduct in the Classroom
4. Students with Disabilities
5. Statement on Military Short-Term Training or Deployment
6. Excused Absences for Students Representing the University
7. Campus Emergency Information
8. Important Dates - VCU
9. VCU Mobile
10. Class registration required for attendance

School of Dentistry Policies

<https://portal.dentistry.vcu.edu/policies/category/courses>

1. Guidelines for the Evaluation of Student Performance and Academic Status
2. Technical Standards for Dental Education Programs
3. Guidelines Governing Examinations and Laboratory Assignments
4. Tutoring Policy
5. Grade Review Process
6. Important Dates - SoD