

Request for a New Graduate Certificate Program
Indiana University School of Dentistry
IUPUI

Oral and Maxillofacial Surgery Certificate

To be offered as a Indiana University Certificate at IUPUI
Summer 2012

Purpose of the program

Indiana University School of Dentistry has offered a Master of Science in Dentistry in Oral and Maxillofacial Surgery for many years. A requirement for the MSD degree was a research project, successful completion of an oral and written examination, and submission of a thesis. The research component has been removed from the program and IUSD would like to officially change the program to a certificate program.

The Oral and Maxillofacial Surgery program at Indiana University is fully accredited by the American Dental Association and sponsored by Indiana University and its School of Dentistry. It is the only program in the State of Indiana located on the health sciences campus of Indiana University/ Purdue University Indianapolis and provides training in the full scope of oral and maxillofacial surgery. The program accepts three students each year.

Oral and maxillofacial surgical training occurs under the auspices of the School of Dentistry at several affiliated hospitals. The residents rotate to the three hospital facilities of IU Health Services and those of the William N. Wishard Memorial Hospital. There are approximately 9,000 outpatient oral and maxillofacial surgery outpatient visits.

The residency is structured so that throughout the four years the resident will participate in a core oral and maxillofacial experience in addition to assigned formal rotations in Anesthesia, Medicine, General Surgery, and Trauma Surgery, Residents also participate in other rotations which are usually scheduled by the department to provide advanced experiences. In addition to the clinical rotations, the resident will participate in a didactic program that has several conferences scheduled per week.

The oral and maxillofacial surgery program at Indiana University strives to fully train enrolled residents in those areas that represent the full scope of the profession through provision of patient care services based on sound scientific principles and didactic instruction, while contributing to new knowledge through research, and advancing the profession by way of professional service.

Relation to existing certificate programs

The Oral and Maxillofacial Surgery (OMS) certificate program will not compete with any other programs at Indiana University. Indiana University School of Dentistry is the only dental school in the state of Indiana and no other OMS program is offered in the state.

The target audience:

This professional, health-oriented postgraduate program is designed for students with a degree in dentistry. The certificate program will be for recently DDS/DMD graduates and practicing dentists who wish to return and obtain a specialty certificate in OMS. Students in this program will follow CODA OMS accreditation guidelines.

The program consists of 2830 credit hours which consist of advanced oral surgery seminar courses. ~~(we should modify this — currently we have each resident participate in 3 credit hours per semester (fall and spring). WE have them participate in 3 credit hours because the GME office provides 3 credit hour salary support per resident per semester. — I will need to verify if they provide such for the summer semester and if so we should enroll them in a summer semester as well.~~

The major objectives for this program

1. To impart an awareness of the history of oral and maxillofacial surgery through review of the professional literature.
2. To provide a sound base of knowledge about surgical methods and procedures through the use of lectures, seminars, case conferences, and literature review sessions.
3. To aid development of surgical skills by supervised training in clinical oral and maxillofacial surgical procedures, as well as by exposure to adjunctive procedures in general surgery and the surgical specialties.
4. To provide a basis for surgical decisions by providing clinical instruction in patient evaluation and management, with emphasis on medicine and its specialties.
5. To incorporate recognition of current medicolegal and ethical practices into the curriculum by instruction in informed consent, coding, and billing practices.
6. To encourage interdisciplinary interactions among the medical and dental professions through resident participation in multidisciplinary educational conferences.
7. To instill a desire to continue educational experiences after completion of residency by faculty example and by participation in and provision of continuing education courses.

Patient Care

1. To give each resident an equal opportunity to develop surgical skills by providing, graduated, supervised exposure to both outpatient and inpatient surgery
2. To impart a sense of appropriate care interventions by applying knowledge gained in didactic instruction to specific patient care scenarios
3. To assist residents in gaining appreciation of patient care appropriate to cultural, gender, socioeconomic, and religious backgrounds

Research

1. To encourage residents to contribute to the surgical knowledge base by active participation in at least one research protocol
2. To impart knowledge of the strengths and weaknesses of published research by providing instruction in assessment of the scientific literature

Service

1. To assist in development of an appreciation for patient service by faculty example in care provision to underserved populations without regard to financial considerations

2. To encourage professional service activities by allowing participation in professional service by residents, and by informing them of the many professional service activities provided by their faculty.

The effectiveness of the program in meeting these objectives is assessed by a number of outcome measures, including but not limited to: periodic resident evaluations of on-service and off-service rotations, ABOMS certification of graduates, performance in OMSITE exam, performance on annual mock board oral exams, periodic questionnaires sent to program graduates, and by provision of full scope services to patients in areas where graduates practice.

The oral and maxillofacial surgery department has a structured didactic program that is designed to meet the educational needs of the surgeon in training.

Example of didactic program

1. OMFS seminar
2. OMFS case conference
3. Anesthesia and medicine seminar
4. Literature review / Journal club
5. Craniofacial surgical / orthognathic seminar
6. Oral pathology seminar
7. OMFS radiology seminar
8. Quality assurance seminar
9. Simulation lab
10. Cadaver lab

1. OMFS seminar and case conference: This conference meets approximately once per week. The seminar provides instruction in basic medical and surgical principles. The lecture schedule is arranged in blocks and covers the full scope of oral and maxillofacial surgery including: trauma, orthognathic and cleft surgery, pathology and reconstruction, esthetic surgery, TMD, dentoalveolar surgery, implant surgery, infections. The function of the case conference is to discuss all preoperative and postoperative cases with an in-depth discussion of the diagnosis and management of the patient.

2. Anesthesia / medicine seminar: This seminar meets approximately once per week. The seminar is divided into two compartments. There is a lecture component that covers the fundamental aspects of office based anesthesia: pharmacology, patient assessment, anesthetic technique, and anesthetic complications. There is also a case presentation component in which the residents will be given scenarios and asked to discuss the anesthetic management of the patient.

3. Craniofacial surgical / orthognathic seminar: This lecture series is provided in conjunction with the orthodontic department at Indiana University School of Dentistry. It meets for approximately 6 months of the year. The core lecture component of the seminar will discuss the

fundamental principles of management of the patient with a skeletal deformity. Presentations of active and completed cases that will require active work-up by participants will be required.

4. Head and neck anatomy: A cadaver dissection course reviewing surgical anatomy and illustrating surgical techniques is provided by the OMFS faculty to all OMFS residents.

5. Literature review: This seminar meets approximately twice pre month. The JOMFS and other pertinent journals are reviewed.

6. Pathology seminar: This seminar meets approximately once per week. The course includes lectures, microscope teaching and CPCs.

7. Oral and Maxillofacial Radiology seminar: This seminar meets once per month for approximately 6 months with residents and faculty from the Departments of Oral Surgery, Plastic Surgery and Otolaryngology. The seminar is directed by a boarded oral and maxillofacial radiologist.

8. Simulation lab: IU Health has a 30,000 square foot simulation lab. The department utilizes several components of the facility, primarily a computer lab consisting of Laerdal's in hospital simulator and a simulated operating room to instruct anesthetic emergency management. The department schedules 3 to 4 sessions of each component annually.

9. Quality assurance: the department schedules 4 sessions annually to assess clinical performance. The conference assesses adverse outcomes and assesses what contributed to these outcomes and what modifications in care could potentially avoid these events in patient care and management.

New Resources

Please see attachment for budget information. [Approval of this proposal will not increase teaching load.](#)

Proposed Date of the initiation of the certificate program

Proposed date of implementation is Summer 2012, assuming all necessary approvals have been met.

Person designated as the certificate program head

Dr. Jeffrey Bennett, Indiana University School of Dentistry, will provide the school administrative oversight.

Faculty initially involved in the program and their credentials

Jeffrey D. Bennett, DMD

IU School of Dentistry

Professor

Doctor of Medicine: DMD: University of Pennsylvania, 1984

Dental School:

E-mail: jb2@iupui.edu

Phone: 317-274-5315

Bio: Dr. Bennett is a graduate of the University of Pennsylvania School of Dental Medicine. He completed a 2 year residency in Anesthesia and a 4 year residency in Oral and Maxillofacial surgery. He joined the IUSD faculty in 2004 as chair of the Department of Oral Surgery and Hospital Dentistry. He is currently Program director of both the OMFS and Dental Anesthesiology program. He is chief of the Dental Service at both IU Health and Wishard Hospital. He is a diplomate of both the American Board of Oral and Maxillofacial Surgery and National Dental Board of Anesthesiology. He is the anesthesia section editor of the Journal of Oral and Maxillofacial Surgery and OMS Knowledge Update. He is co-editor of ABOMS item construction for the computer based testing. He is councilor of the Oral Surgery / Hospital Dentistry / Dental Anesthesiology section of ADEA. He is an oral surgery representative to the RRC of CODA. He is past president of the ADSA, CSOMS, oral surgery section of AADR.

Robert P. Alderman, DMD

DDS: IU School of Dentistry

Assistant Professor

DMD: University of Louisville, 2003

E-mail: ralderma@iupui.edu

Phone: 317-274-5315

Bio: Dr. Alderman has joined the Indiana University School of Dentistry Faculty as an Assistant Professor in the Department of Oral Surgery and Hospital Dentistry. Dr. Alderman completed his undergraduate training at Bellarmine College in Louisville, Kentucky in 1998, where he received a Bachelor of Arts in Biology. He then earned his D.M.D degree in 2003 from the University of Louisville. He started a residency in Oral and Maxillofacial surgery at the University of Louisville in 2003. His training was later put on hold when he was called up to active duty with the US Army Dental Corps. He then continued his training in Oral and Maxillofacial surgery at Indiana University where he was awarded his certificate in 2011.

He is a member of the American Association of Oral & Maxillofacial Surgeons, the Indiana Society of Oral and Maxillofacial Surgeons, the Indiana Dental Association and the American Dental Association. He graduated dental school with honors and was the recipient of numerous awards throughout his training. Research projects have included *Utilization of rhBMP-2 in Mandible Fractures*, *Alveolar Osteitis Following 3rd Molar Extractions* and *Osteomyelitis Following Routine Dental Extractions*. He has lectured on *Surgical Management of the OKC*, *Skin Rejuvenation Procedures*, *Mandibular Condyle Fractures & Distraction Osteogenesis*.

Demon A. Brown, DDS

IU School of Dentistry

Assistant Professor

DDS: Howard University 2007

E-mail: desmbrow@iupui.edu

Phone: 317-274-5315

Bio: Dr. Desmon Brown completed his Bachelor of Science in Biochemistry and Zoology with honors at the University of the West Indies, Kingston Jamaica in 2003, and went on to Howard University where he gained his D.D.S degree with honors in 2007.

Dr. Brown completed a residency in Oral & Maxillofacial Surgery Department at the University of Florida, College of Medicine in Jacksonville Florida. He is joining the Indiana University School of Dentistry Faculty as an Assistant Professor in the Department of Oral Surgery and Hospital Dentistry.

He is a member of the American Association of Oral & Maxillofacial Surgeons and the American Dental Association. Among the awards received during training were **Omicron Kappa Upsilon- Pi Pi Chapter Inductee** (Dental Honor Society) 2007; **American Association of Oral and Maxillofacial Radiology Award** 2007; **The Joseph and Mary E Bailey Award** (Most Improved during dental school tenure) 2007; **The Frank M. Lapeyrolerie Memorial Award** (Senior Student demonstrating exceptional ability in Oral and Maxillofacial Surgery) 2007; **The Academy of Osseointegration (AO) in Implant Dentistry Award** 2007; **Vice President of Senior Class** 2006; **Oral and Maxillofacial Surgery Award** 2005; **Dean List, Honor student** 2003-2007; **Howard University Trustee Academic Scholarship** 2003

Dr Brown has participated in three international mission trips, two to his homeland Jamaica in 2004-2005 and the other to the Philippines in 2011.

Carrie Klene, DDS

DDS: IU School of Dentistry

Assistant Professor

DDS: Indiana University School of Dentistry, 2004

E-mail: cklene@iupui.edu

Bio: Dr. Carrie Klene was born and raised in Indianapolis, Indiana. She completed both her undergraduate and dental degree at Indiana University. Following her doctorate, she completed a two year general practice residency at Carolinas Medical Center in Charlotte, North Carolina. She completed a one year internship followed by a four year residency in oral and maxillofacial surgery at the University of Maryland/ R. Adams Cowley Shock Trauma Center. Dr. Klene is joining the Indiana University School of Dentistry as an Assistant Clinical Professor in the Department of Oral Surgery and Hospital Dentistry. She is honored to have the opportunity to work at Indiana University and excited to treat the patients in her home state.

Kyle Kramer, DDS, MS

IU School of Dentistry

Assistant Professor

DDS: Indiana University School of Dentistry, 2006

E-mail: Kjkramer@iupui.edu

Bio: Dr. Kyle J. Kramer joined the IUSD faculty as an Assistant Clinic Professor of Dental Anesthesiology starting October 1, 2010. While serving as an attending dentist anesthesiologist, his primary objectives will be supervising the delivery of the complete range of anesthesia services to patients in both the hospital and dental clinic setting. Additionally, he will be facilitating the development of a dental anesthesiology residency program.

Dr. Kramer graduated from Indiana University in Bloomington, Indiana in 2002 with a Bachelor of Arts in psychology. He began his dental career shortly thereafter at IUSD, graduating in 2006. After finishing a one year general practice residency at Indiana University, he accepted a one year fellowship position in dental anesthesia at Indiana University, working exclusively with the anesthesia department at Wishard Memorial Hospital. In January of 2009, he accepted a position at The Ohio State University as a dental anesthesia resident, which culminated in September, 2010, with a certificate of completion and Master's degree in dental anesthesiology. Additionally, after successful completion of both the written and oral exams, he was certified as a diplomat of the American Dental Board of Anesthesiology.

Admissions requirements and procedures

General admissions requirements for the Postgraduate Certificate in Oral and Maxillofacial Surgery

Candidates credentialed as a dentists are eligible to apply for admissions. Admission is selective: the Admissions Committee evaluates dental transcripts, class rank. The certificate program is designed for students with a US or Canadian DDS/DMD degree.

Completion requirements:

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First Year Curriculum

Summer:	MSCI-X 800 Topics in Clinical Sciences R905 Advanced Oral Surgery Seminar	<u>14</u> units
Fall:	R905 Advanced Oral Surgery MSCI-X 800 Topics in Clinical Sciences	<u>34</u> units
Spring:	R905 Advanced Oral MSCI-X 800 Topics in Clinical Sciences	<u>34</u> units
Summer:	R905 Advanced Oral Surgery Seminar	1 unit

Second Year Curriculum

Fall:	R905 Advanced Oral Surgery Seminar	3 units
Spring:	R905 Advanced Oral Surgery Seminar	3 units
Summer:	R905 Advanced Oral Surgery Seminar	1 units

Third Year Curriculum

Fall:	R905 Advanced Oral Surgery Seminar	3 units
Spring:	R905 Advanced Oral Surgery Seminar	3 units
Summer:	R905 Advanced Oral Surgery Seminar	1 unit

Fourth Year Curriculum

Fall:	R905 Advanced Oral Surgery Seminar	3 units
Spring:	R905 Advanced Oral Surgery Seminar	3 units

Total units: ~~2833~~

Learning Outcomes

Residents who complete a four-year oral and maxillofacial residency will

- 1) be proficient in the core procedures, treatments and surgical techniques available to oral and maxillofacial surgeons
- 2) have experience in the full range of procedures, treatments and surgical techniques available to oral and maxillofacial surgeons
- 3) have experience with, and be competent in the medical management of the surgical patient, including the ability to adequately perform a preoperative assessment
- 4) have experience with, and be proficient in the full range of anesthetic techniques available to oral and maxillofacial surgeons
- 5) have knowledge and skills in management of medical emergencies
- 6) demonstrate evidence of familiarity with, and an understanding of relevant literature. They will demonstrate evidence that they have applied critical thinking to their reading
- 7) will participate in scholarly activity which will consist of a research project, manuscript development, scientific presentations, and/or case presentations

Minimum overall GPA

Successful completion of the certificate requires at least a B average overall courses counting towards the certificate. The minimum grade that will be accepted in any single course is a C. ~~we do not give grades~~ Students are assigned grades.

Maximum number of units that can be transferred from another institution

No courses may be transferred from another institution

Maximum number of undergraduate courses that can be applied

No undergraduate courses can be applied to this certificate program

Maximum time for completion

All requirements for the certificate must be completed within 4 years. All students enrolled in this program will be full-time students.

Number of credit hours taken prior to admission to the certificate program that may be counted to completion of the degree

None

Course listed for program including course descriptions

Program Administration

Dr. Bennett will oversee the program. The Office of the Associate Dean, Michael Kowolik, School of Dentistry, will take responsibility for all recording keeping and tracking of residents.

Procedures for program evaluation including the criteria for success.

Upon completion of the OSM program, exit interviews will be conducted for all residents to determine the effectiveness of the program in meeting their needs and to identify how they are using the skills and tools learned in the program in their profession. Follow-up interview and surveys will be conducted following OSM CODA accreditation guidelines to ascertain what learned skills they are currently using and if they have a designated professional title in the field of oral and maxillofacial surgery. Success of the program will be defined by the responses of the students surveyed upon completion their degree and in the follow up interviews.