Institution Submitting Request: University of Utah
Proposed Title: School of Dentistry
School or Division or Location: University of Utah
Department(s) or Area(s) Location: Dental Education

Recommended Classification of Instructional Programs (CIP) Code\(^3\): \text{51.0401}
Proposed Beginning Date: 07/01/2012
Institutional Board of Trustees’ Approval Date: \text{MM/DD/YEAR}

Proposal Type (check all that apply):

<table>
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<tr>
<th>Section #</th>
<th>Item</th>
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<tr>
<td>4.1.1</td>
<td>Non-Credit Certificate of Proficiency Eligible for Financial Aid</td>
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<td>Credit Certificate of Proficiency Eligible for Financial Aid</td>
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<td>4.1.1</td>
<td>Non-Credit Certificate of Completion</td>
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<td>Credit Certificate of Completion</td>
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<td>4.1.9</td>
<td>Fast-Tracked Certificate</td>
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<td>4.1.2</td>
<td>Associate of Applied Science Degree</td>
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<td>4.1.3</td>
<td>Associate of Science Degree</td>
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<td>4.1.5</td>
<td>Bachelor’s Degree</td>
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<td>4.1.6</td>
<td>K-12 School Personnel Programs</td>
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<td>4.1.7</td>
<td>Master’s Degree</td>
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<td>4.1.8</td>
<td>Doctoral Degree</td>
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Chief Academic Officer (or Designee) Signature:
I certify that all required institutional approvals have been obtained prior to submitting this request to the Office of the Commissioner.

Signature __________________________ Date: ______________
Printed Name: ________________________
Program Description
The University of Utah requests approval to establish a School of Dentistry that offers a doctoral degree in dentistry (Doctor of Dental Surgery). The School’s mission will be to educate and train excellent, compassionate and ethical dentists to partner with other healthcare providers in order to serve our community and the world around us and to further our understanding of the therapeutic management of oral structures and functions through research and its translation. Twenty-five percent of the curriculum for the School of Dentistry is already in place, functioning and accredited by the American Dental Association (ADA) through a Utah-Creighton contract with the current Regional Dental Education Program (RDEP). This foundation will be expanded to a four-year, top-tier doctoral degree-granting School of Dentistry.

Role and Mission Fit
The purpose of the role of the School of Dentistry is to improve the health of our community through education, research, clinical service and appreciation for diversity. We share this purpose with the University of Utah and the Board of Regents. We support the stated mission of the University of Utah as found in Regents' Policy R312. Our primary purpose of existence is to establish an environment that promotes teaching/learning and to do so in a manner that reflects the values cited in our mission statement. Our mission in the delivery of quality and comprehensive care supports the University's mission to be comprehensive and to exist for the betterment of society. Our mission to cultivate research activity enhances the University's goal of conducting research to improve teaching and discover knowledge. Our mission of service to community and to the profession supports the University's goal of service to others and the recognition of the inalienable work of each individual.

Faculty
The faculty for the University of Utah School of Dentistry will have the following complement of faculty at the time of its full implementation in the 2016/2017 academic year.

<table>
<thead>
<tr>
<th>Summary Table</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tenure#</td>
</tr>
<tr>
<td>Faculty with Doctorates</td>
</tr>
<tr>
<td>Faculty with Master's</td>
</tr>
<tr>
<td>Faculty with Bachelor's</td>
</tr>
<tr>
<td>Others</td>
</tr>
</tbody>
</table>

Market Demand
According to the Utah Medical Education Council (MEC), there are insufficient dentists establishing practices in Utah to maintain the current dentist-to-population ratio (56.8/100,000 population), which is below the national average (59.8/100,000). The 2008 MEC report indicates that we need 75-85 new dentists/year with a net increase of 36-40 per year to maintain our current ratio. That Utah has need for additional dental manpower is further supported by an American Dental Association (ADA) report that the Utah dental workforce is significantly lower than those in the Pacific, New England or Middle Atlantic regions and even some of the mountain states like Montana. It is also suggested that the current number of Utah dentists is declining, reflecting a trend that is also occurring at the national level. The declining numbers are likely to further reduce the Utah dentist population ratio, especially in light of the fairly robust
Utah population annual growth of approximately 1-2%. The following reports support this conclusion.

- In 2009 and 2010 there was only an annual net increase of 18 dental licenses/year compared to the annual average of 33 new licenses in Utah for 1998-2008 (in 2010 more dental licenses expired than were issued).
- In 2006-2010 there was an annual increase of 22 dental malpractice insurance policies; however, in 2010 there was a net decrease of 4 policies.
- Based on ADA reports, fewer Utah students are returning to Utah to practice because of economics, lower fees/service, and skyrocketing debts resulting from being forced to attend expensive out-of-state public and private dental schools.
- The shortage of dentist in Utah is especially severe in rural areas that offer fewer economic incentives than larger metropolitan regions located along the Wasatch front.

**Student Demand**
The profession of dentistry provides a medical career that has a special appeal to Utah students. This is due to its high professional regard, opportunities for entrepreneurial independence and satisfying professional development, exceptional economic benefits and a desirable life-style option. Consequently, the ADA has reported that Utah has the highest applicant rate for the dental schools in the country. This is reflected in the fact that 170-200 applications are considered annually for the RDEP program at the University of Utah. The ADA also reported in 2004 that 168 first-year students who claimed Utah as their residence were matriculated in dental schools throughout the country. Although data are not available, it is very probably that approximately 2-3 times this number actually applied as the acceptance rate for dental school has been approximately 50%. Despite this historically high demand, a full 4-year, state-supported dental program has not been available to Utah residents. More recently, there has been a disturbing trend that tuition and fees for dental programs, especially those in expensive private institutions and those available to out-of-state students in public schools, have skyrocketed. Consequently, it is typical that total expenses for Utah dental students are anywhere from $85,000 to $115,000/year. Thus, upon graduation these students can have debt approaching $0.5 million. It is expected that the prospects of such staggering and seemingly escalating debt will make a dental education inaccessible to many Utah students and force these students to select less desirable, but more affordable careers. This appears to be already occurring based on recent reports that Utah first-year dental student declined from 168 (2004) to 134 (2008), despite the fact that the number of graduates from Utah universities has been steadily increasing. It is proposed that the most appropriate strategy to address these undesirable circumstances is to establish a fiscally sound dental school that fully utilizes the outstanding resources of the University of Utah to offer an affordable high quality dental education to qualified in-state residents.

**Statement of Financial Support**
The following funding will be generated:

<table>
<thead>
<tr>
<th>Source of Funding</th>
<th>Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appropriated Fund</td>
<td>✔</td>
</tr>
<tr>
<td>Special Legislative Appropriation</td>
<td>☐</td>
</tr>
<tr>
<td>Grants and Contracts</td>
<td>✔</td>
</tr>
<tr>
<td>Special Fees/Differential Tuition</td>
<td>✔</td>
</tr>
<tr>
<td>Other (Clinic Income)</td>
<td>✔</td>
</tr>
</tbody>
</table>

**Similar Programs Already Offered in the USHE**
There are no similar programs offered in the USHE.
The University of Utah requests approval to establish a School of Dentistry July 2012 that offers a doctoral degree in dentistry effective Fall Semester 2013.

Section II: Program Description

Complete Program Description

The School of Dentistry at the University of Utah will award the Doctoral of Dental Surgery (DDS) degree to those graduate students who successfully complete the graduate degree program (completed all prescribed courses with a minimum grade of 2.0 and achieved the prescribed competencies) accredited by the Commission on Dental Accreditation of the American Dental Association. Courses offered by the School of Dentistry will be limited to students who have been admitted to the school. Students receiving the D.D.S. degree will have satisfactorily completed all prescribed courses with at least a minimum grade of C.

Purpose of Degree

The University of Utah is the only academic medical center in the State of Utah. Collaboration with other health care professions will enhance a student's education. The school mission will be to educate and train excellent, compassionate and ethical dentists to partner with other healthcare providers in order to serve the communities around us and to further understanding of the therapeutic management of oral structures and functions through research and its translation.

Institutional Readiness

The current administrative structure at the University of Utah Health Sciences is designed to accommodate the awarding of the doctorate of dentistry degree. The School of Dentistry will be part of the Health Sciences along with the School of Medicine, College of Pharmacy, College of Nursing and College of Health. The Dean of the School of Dentistry will report directly to the Senior Vice President for Health Sciences.

The dental degree will not impact the delivery of undergraduate and/or lower-division education. Those courses required for pre-dental/pre-requisites are already available.

Faculty

The following table includes a headcount of faculty who will be associated with the requested dental program.
<table>
<thead>
<tr>
<th>Faculty Category</th>
<th>Faculty Headcount – Prior to Program Implementation</th>
<th>Faculty Additions to Support Program</th>
<th>Faculty Headcount at Full Program Implementation</th>
</tr>
</thead>
<tbody>
<tr>
<td>With Doctoral Degrees (Including MFA and other terminal)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Full-time Tenured</td>
<td>2</td>
<td>30</td>
<td>32</td>
</tr>
<tr>
<td>Full-time Non-Tenured</td>
<td>3</td>
<td>7</td>
<td>10</td>
</tr>
<tr>
<td>Part-time Tenured</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Part-time Non-Tenured</td>
<td>35</td>
<td>10</td>
<td>45</td>
</tr>
<tr>
<td>With Master’s Degrees</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Full-time Tenured</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Full-time Non-Tenured</td>
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<tr>
<td>Part-time Tenured</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Part-time Non-Tenured</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>With Bachelor’s Degrees</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Full-time Tenured</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Full-time Non-Tenured</td>
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<td></td>
<td></td>
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<tr>
<td>Part-time Tenured</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Part-time Non-Tenured</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Full-time Tenured</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Full-time Non-Tenured</td>
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<td></td>
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</tr>
<tr>
<td>Part-time Tenured</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Part-time Non-Tenured</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Headcount Faculty</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Full-time Tenured</td>
<td></td>
<td></td>
<td>32</td>
</tr>
<tr>
<td>Full-time Non-Tenured</td>
<td></td>
<td></td>
<td>10</td>
</tr>
<tr>
<td>Part-time Tenured</td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>Part-time Non-Tenured</td>
<td></td>
<td></td>
<td>45</td>
</tr>
<tr>
<td><strong>Total Department Faculty FTE</strong> (As reported in the most recent A-1/S-11 Institutional Cost Study for “prior to program implementation” and using the A-1/S-11 Cost Study Definition for the projected “at full program implementation.”)</td>
<td>X</td>
<td>64</td>
<td></td>
</tr>
</tbody>
</table>

The Regional Dental Program (RDEP) currently has sufficient faculty and staff to provide the first year of dental education for 10 students. This consists of 4 full-time professors (1 full, 1 associate and 2 assistant professors) in clinical tracks; 2 full-time staff (1 secretary and 1 executive assistant); 7 adjunct assistant professors; 35 adjunct instructors; and 5 contract adjunct professors for basic science instruction. With initiation of the dental school in 2013 the entry class will be ~20 students, but the school will have the capacity to handle as many as 50 students under maximum capacity and can expand until reaching a full complement of students in 4 years. The actual numbers will depend on state needs and student demand. We will achieve the number and distribution of faculty at the University of Utah School of Dentistry sufficient to meet the dental school’s stated purpose/mission, goals and objectives and make the School of Dentistry
fully compliant with American Dental Association standards. By the first year of the dental program (Fall 2013) there will be 22 fulltime FTE faculty members with 4 administrators and 7 in basic sciences, 6 in the clinical sciences and 5 in research. In addition, there will be 39 part-time faculty with 4 in basic sciences and 35 in the clinical sciences to meet the academic needs of 20 dental students. Each year thereafter faculty will be added incrementally as additional students are included until by the time of full implementation (by 2016/2017, the academic year of the first graduating class), there will be 32 FTE tenure-eligible faculty positions. These faculty members will be evaluated, promoted and tenured according to established Retention, Promotion and Tenure (RPT) Guidelines. The School of Dentistry faculty will also include 45 in clinical services (most part-time and non-tenured), 15 in basic sciences and research with an additional 10 full-time non-tenured faculty to meet the academic and clinical needs throughout the 4 years of the program of 80+ students. The evaluation, retention and promotion processes for these non-tenure track faculty are also described in the RPT Guidelines referred to above. All administrators also will be actively involved in clinical, basic science education or research.

The governance for the School of Dentistry will be directed through the office of the Dean working with the Executive Committee and College Council and will be consistent with that of other colleges with a college-equivalent Faculty Council to formulate policies and exercise primary authority to make decisions related to the School to the extent authorized by University Regulations. The details of this body as well as the other organizational entities and committees of the School of Dentistry are explained in the Charter for the School of Dentistry (Faculty) Council.

The School of Dentistry will employ an integrated educational strategy that efficiently utilizes fulltime, part-time and adjunct faculty including clerkship mentors and residents to assist student learning and achieving of competency in all areas. The full-time members will, for the most part, be tenure-track faculty and comprise the core of the administrative, teaching, and research responsibilities while overseeing and coordinating the programs in the administrative, basic science, clinical course areas and research programs. The following tables represent the FTE full-time faculty positions that will be assigned to the University of Utah School of Dentistry and the total number of faculty members (both full- and part-time) who will contribute to administration as well as the basic science and clinical course areas. These estimations are based on a 38-week curriculum, full-year curriculum.

The School of Dentistry Dean, in counsel with the Executive Committee, will have the authority and flexibility to recruit and hire additional faculty as needed for expansion or restructuring of resource allocation as programs become modified, added, or eliminated. The University of Utah School of Dentistry will rely on a traditional and proven dental education model that when needed, takes advantage of the considerable institutional and community resources in both basic sciences and dental practice to support the mission of the School of Dentistry and help its students achieve the competencies requisite for producing outstanding dental practitioners. Specifically, when appropriate and practical, the School of Dentistry will identify and compensate exceptional and well-established basic science and practicing health care educators from sister colleges/schools at the University of Utah such as the School of Medicine, College of Pharmacy, College of Nursing, College of Health, College of Social and Behavioral Science and the Graduate School of Social Work for teaching responsibilities. These University of Utah colleges and schools are well-established programs with exceptional records for health-related education that is critical for comprehensive dental training. All of these programs have expressed a willingness to serve as a resource for basic and clinical medical science instruction as needed. Such a contractual arrangement will use faculty from these other programs as part-time employees in a cost-effective manner. This strategy often precludes the need to hire full-time faculty for all teaching in such a way that does not compromise
the quality of teaching or diminish access to instructors. It also will allow dental students from the School of Dentistry to learn from the very best educators available at the University of Utah while helping them appreciate other health care strategies and their relevance to dentistry.

In addition, the School of Dentistry will recruit outstanding dental clinicians in the community who are highly regarded and well-established practitioners to contribute to the clinical training of the dental students. These practicing local clinicians will provide invaluable experience and perspective essential to proper dental training. By working with fulltime clinical professionals at School of Dentistry, these part-time clinical faculty will understand and be guided by the institutional expectations to assure the requisite quality control necessary for students to achieve expected competencies. An additional benefit of allowing local practitioners to contribute to the School of Dentistry as part-time faculty will be that the dental community will develop a sense of partnership and contribution to dental education. As a result they will be more inclined to take advantage of the School of Dentistry for continuing education and other experiences that embellish their own practice and raise the quality of dental services available to the general public.

Administrative faculty positions often will be occupied by persons with either outstanding basic science or clinical credentials and skills. In such cases, these persons will spend ~10% of their time engaged in mentoring/teaching students in their area of expertise to help take advantage of their extensive expertise and experience as well as provide opportunities of student-administration interaction to be able to better assess the needs and progress of the School of Dentistry. Some faculty and practitioners with particularly valuable expertise and background will also have administrative assignments to serve as the chair of their respective clinical departments with the responsibility to organize and direct both full- and part-time faculty members and associated staff in their unit. They will not be expected to spend more than 50% of their time in this administrative role, while the other 50% will be devoted to teaching and mentoring dental students. These faculty and practitioners with duel roles will receive additional compensation commensurate with the extra responsibilities.

The institution's policy for faculty activities will be based on the original contract that defines faculty responsibilities and will be based on specific institutional needs that will be expected to be met by the faculty member. Each contract will be distinct and individualized according to the skill set and experience of the faculty member and the expectations of the school's administration and mutually agreed upon before employment can occur. For example, some faculty will be hired with the expectation that he/she will spend a designated percent of time engaged in research activities that include conducting quality research leading to publications in peer-reviewed scientific journals and successful competition for extramural support to further the academic mission of the dental school and make a significant contribution to dental sciences. It is likely that such faculty members will be expected to provide lectures or be the course director for basic science or clinical courses that relate to his/her field of expertise and experience. In addition, most faculty members will also be expected to contribute to the general operation of the dental school by participating as members of college committees, student counseling or mentoring, or outreach and service. In order to assure contractual agreements will be met fairly, an annual review of work responsibilities will be undertaken as part of the routine faculty evaluation process and when appropriate, adjustments will be negotiated and implemented to reflect changes.

Faculty members who substantially engage in funded research or contract projects will likely be governed by the rules established and administered by the University of Utah Office of Sponsored Projects. These policies apply equally to all health-related colleges/schools at the University and include rules governing salary and fringe benefits support, accounting and patent expectations, animal care and IRB requirements,
indirect fees to pay for space and resource utilization, compliance with rules of personal and research conduct established and administered by the funding agency, etc.

In some cases according to pre-arrangements, some clinical faculty will be allowed to practice and be compensated for clinical services using the school's clinical facilities, as long as this practice in no way compromises the principal mission of the School of Dentistry or of the University of Utah and does not detract from the faculty member’s ability to fulfill his/her contractual responsibilities as a faculty member. These arrangements will be entirely consistent with the established clinical policies for other health care practitioners, such as physicians, at the University of Utah and compensation will reflect the established value of services rendered by the clinician and the support costs to the School of Dentistry.

The University of Utah School of Dentistry will utilize an educational model and staffing plan that preserves a student to faculty ratio of no greater than 2.0. This ratio will be met with fulltime and part-time professors, and will be supplemented by instructors who possess the appropriate training and experience to provide the necessary mentoring for students to develop requisite competencies and assure safety to both students and patients when applicable.

Faculty Development

The objective of our faculty development program will be to enhance teaching and technical skills in order to assure optimal student training and achievement of dental professional competencies and will be under the direction of the Assist/Assoc Dean for Academic Affairs and Faculty Development. This program will include access to skills development through several mechanisms such as: (i) annual faculty retreat conducted at an off-campus site with over-night accommodations and including continuing education programs; (ii) continuing education courses that satisfy the State of Utah dental re-credentialing requirement of 30 hours over a two-year period; (iii) attendance of annual meetings of local, state or national professional organizations; and (iv) an opportunity to spend ½ day per week for scholarly pursuits such as research and scientific writings. On an annual basis the University of Utah will contribute to the faculty development process by offering courses in effective management to help improve leadership skills of faculty members. The maintenance and further development of the faculty’s clinical skills will be encouraged by a contract option that allows full-time teaching and research faculty to engage in private practice opportunities, either intramurally or extramurally. In addition, all faculty offices will have computers with Internet connection and access to list servers, e-mail, the library, no-charge MedLine searches and unrestricted Internet access. Technological support of the teaching efforts of the School of Dentistry will be provided through the University's Division of Information Technology. It is noteworthy that some of the continuing education programs will be conducted in collaboration with other colleges and their faculty in order to optimize resources as well as create opportunities for interaction between the faculty members of different colleges/schools. In addition, there will be calibration programs for the community-based adjunct faculty held semi-annually to be conducted by the fulltime faculty to help ensure consistent teaching in the central and satellite clinics.

The Dean and Assist/Assoc Deans will oversee faculty continuing education, technology skill development, research productivity and scholarship. The School of Dentistry clinical faculty will be responsible for acquiring the number of hours of continuing education required by the state of Utah as practicing dentists.

Finally, the School of Dentistry will schedule mandatory in-service training for quality assurance issues, emergency preparedness, review of clinical protocols, HIV/AIDS and other communicable disease awareness and management, conflict of interest awareness, mentoring skills development, ethics and
domestic violence issues. These courses will be available on either in-person or electronic basis. Full-time faculty members will also be retrained in CPR at the Health Care Provider level every two years on-site by trainers provided by the University of Utah Hospital services.

As previously stated, some initial teaching skills programs will be required for faculty. Additional CE “refresher” and retraining courses will be advertised by announcements in faculty meeting, by flyers, program brochures and other forms of notification. Appropriate CE credit will be given wherever possible to both fulltime and community-based part-time faculty. The faculty will also be encouraged to attend meetings of professional organizations locally, regionally, and nationally. Funding mechanisms to help cover the expenses associated with meeting attendance and to encourage giving presentations of their scholarly works will be made available to encourage participation in professional dental and related education and biomedical meetings.

Continuing education courses are available through the Utah Dental Association as well as through other local dental association units. In addition, approved CE dental courses offered by outside organizations will be offered on a regular basis and will be advertised to faculty members. Some CE opportunities will be made available on the internet using the University of Utah teleconferencing resources.

Under the management of the Dean and Assist/Assoc Dean of Academic Affairs and Faculty Development, the School of Dentistry will establish a faculty development program that will be tracked by an annual performance review and goal-setting process. It will include activities that are coordinated through the departments and structured in such a manner to comply with the University of Utah Faculty Performance Guidelines and University of Utah Regulations (Policy 6-303, Rev. 19: Retention, Promotion, and Tenure) to comply with rank and tenure considerations. These sections will help define and measure faculty development for RPT considerations with the intent to establish and maintain a high level of didactic and academic experiences available to students by encouraging continual growth in areas of teaching/education, research/scholarly activity/clinical, and service. A program that features nationally recognized clinicians/speakers to present didactic and hand-on courses on contemporary dental practice advances will be implemented under the direction of the Assist/Assoc Dean of Academic Affairs and Faculty Development. The programs will utilize facilities at the dental school equipped with contemporary equipment and materials to attract the clinical faculty. Programs will also be advertised throughout the community, state, and nationally to dentists who will attend and pay course fees so these programs can be self-sustaining. Funds will be available initially to get the CE program started. The University of Utah School of Dentistry faculty will have priority access to these opportunities. Strong vendor participation for these programs will be encouraged in order to help develop opportunities for product testing by faculty and students. However, extra care will be taken to avoid conflict of interest issues or inappropriate endorsements as part of the program presentations. The use of the School of Dentistry facilities and personnel for clinical product assessment studies should lead to opportunities to contribute to dental research and skill improvement.

In addition, clinical faculty will be given the option to participate in release time to engage in either intramural or extramural practice to maintain their clinical skills.

Staff

The University of Utah currently provides a full complement of centralized university resources and associated staff, all of which are readily accessible on the main campus. These functions are all fully in service and provide excellent support to existing University of Utah programs and currently cover a full
spectrum of services and have done so for many years. These outstanding resources are readily accessible and committed to the success of all University of Utah students and programs and will provide similar comprehensive services to the new dental school. This arrangement will help to establish and achieve consistent standards and outstanding support for academics, service, training and research while facilitating collaborative efforts in these areas with existing colleges and programs. This arrangement will foster a team mindset thereby encouraging a holistic approach in healthcare management. The resources include, but are not limited to:

**Administrative Management:**

University Central Administration
Ombuds Office
Transcript Office
Alumni Association
Space and Planning Office
Travel Office
Public Policy and Administration Office

**Learning Resources:**

Learning Enhancement Program
Health Science Central Library
Network and Communication Services
Science Education and Outreach

**Research**

Grants and Sponsored Projects Management
Technology Transfer
Animal Resource Center
Clinical Research Center
Huntsman Cancer Institute
Antiseizure Drug Development Program
Utah Addiction Center
Resource for Genetic and Epidemiologic Research

**Faculty and Staff Management**
- Human Resources Office
- Disability Services
- Equal Opportunity and Employment Services
- Presidential Commission on the Status of Women

**Student Services**
- Alcohol and Drug Education Center
- Office of Student Affairs
- Campus Recreation Services
- Counseling Center
- Office of Health Promotion
- Insurance Office (student health services)
- Office of Residential Living
- Student Health Services
- Tutoring services office
- Student Union Center
- Veteran Affairs Office
- Women Resource Center
- Health Science Book Store

**Financial:**
- Financial Aid and Scholarship
- Financial Accounting Services
- Research Accounting Services
These highly experienced and efficient University of Utah support systems and associated staff will substantially reduce the annual operating expenses for dental school by as much as a million dollars while providing the highest quality of specialized services to the dental faculty, staff and student body enabling the dental school to provide exceptional mission-related education, experiences and services at minimal cost. In addition to these institutional support services, the University of Utah School of Dentistry will establish descriptions and resources for 23 staff positions by 2013 in time for the first entering class. Staff will be added incrementally in preparation for additional classes until there are a total of 52 staff positions by the time the dental school achieves full operational status for the 2016/2017 academic year. These dental school staff members will be responsible for services that involve information and learning (e.g., audiovisual and computer support) technology, continuing education services, clinical management and support, library, secretarial support, security, supplies (both clinical- and research-related) management and dispersal, public relations and outreach, financial aid, registrar, student services, recruitment, development and fund raising, administrative and administrative clerical staff, research technicians and laboratory assistants.

Because the School of Dentistry will have a full complement of staff to attend to the secretarial and clerical support for the dental program it will not rely on a centralized service per se nor will it require services provided by a separate centralized clerical/duplicating. When fully operational (2016/2017) the School of Dentistry personnel will include: a pool of 5 secretaries for the Dean and other associated senior administrative staff; each of the assistant/associate deans will have 1 assigned secretary. There will also be 5 administrative assistants assigned to provide support to the Dean's office and the associated officers. In
addition, there will be supportive staff consisting of 10 part-time assistants/secretaries for department chairs.

Library and Information Resources

The Spencer S. Eccles Health Sciences Library is located in a separate building immediately north of the Health Sciences Education Building. It accommodates patrons at individual carrels and study tables on three floors. The Public Services Department, located on the main floor, provides assistance in the use of the library, the online catalog, online database services, including PubMed and Internet resources. Computer workstations, laptops and other mobile devices, laser printers, scanners, copiers and audience response systems (ARS) are available for use. Wireless access is available throughout the building.

Admission Requirements

To meet the requirements of state licensing boards and to gain the necessary background for the study of dentistry, students must complete minimum educational requirements for admission to the School of Dentistry. This process will be directed by the Assist/Assoc Dean for Student Affairs working with the School's Admissions Committee.

Candidates must have completed a minimum of two years of college credits at an accredited college of arts and sciences. While a minimum of 64 semester hours (96 quarter hours) from an accredited liberal arts college is required, most accepted candidates will have completed 120 semester hours (180 quarter hours). The minimum of 64 semester hours (96 quarter hours) must be obtained exclusive of credit in military science, physical education, and nonacademic courses. The 64 semester hours must include the following specific subjects and credit:

- Biology ................................................................. 6 semester hours
- Chemistry, inorganic ........................................... 8 semester hours
- Chemistry, organic ............................................... 6 semester hours
- English ............................................................... 6 semester hours
- Physics ............................................................... 6 semester hours

The hours listed are suggested as most nearly conforming to a year’s work in most colleges. The governing principle shall be that the credit presented in each subject shall represent a full academic year’s course in an accredited college of arts and sciences.

The required hours and subjects must be completed by the end of the spring term preceding the fall in which the applicant wishes to enter the School of Dentistry. The following electives are suggested for the remainder of the required sixty-four semester hours: Modern languages, mathematics, history, social science, philosophy, speech, economics, comparative anatomy, psychology and computer utilization. The majority of applicants enrolling in the School of Dentistry should have completed a Bachelor's degree program.

Weighting of admission criteria will reflect emphasis on academic performance. This includes science GPA, non-science GPA, total GPA and DAT scores. The minimum total GPA and DAT score required for acceptance to the School of Dentistry will be 3.0 and 17, respectively; however, it should be noted that currently for the RDEP students the average total GPA and DAT score is 3.6 and 20, respectively. The interview evaluation will also be a key factor contributing to the applicant's potential for acceptance.
Student Advisement

Students in the University of Utah School of Dentistry will be appropriately informed and sustained concerning their academic and professional expectations and financial obligations by the offices of the Assist/Assoc Dean for Student Affairs and Finances, working with the Curriculum, Learning and Teaching, Scholastic Standards and Assessment Committees through the following processes.

Personal, Academic and Career Counseling

Personal, academic and career counseling of students will be provided and coordinated through the Office of Student Affairs in the School of Dentistry.

The Assist/Assoc Dean for Students Affairs will have primary responsibilities related to personal counseling of students and will have an open door policy for all dental students. This availability of the Assist/Assoc Dean for Student Affairs will be communicated to students during orientation at the beginning of the year, reinforced to class officers several times throughout the academic year and faculty will be reminded of this role during a Faculty Retreat. The majority of personal problems that arise, such as an illness or death in the family or housing difficulties, will be resolved by the office of the Assist/Assoc Dean for Student Affairs. Personal problems that may arise for students which require the expertise of professional counselors or psychologists will be referred to the Health Sciences or the Medical School counseling centers.

Academic counseling, particularly in situations when expectations are not being met, will be coordinated by the Assist/Assoc Dean for Student Affairs working in conjunction with the Assist/Assoc Dean for Academic Affairs & Faculty Development, the Assessment Committee and the Scholastic Standards Committee. Each student is assigned a faculty academic advisor. Individual luncheons will be scheduled during the first month of the academic year for the academic advisors and their group of first year advisees. The purpose of this meeting will be to insure that each student will meet his/her advisor, to open lines of communication, to explain the academic assistance available, and to encourage early recognition and corrective action with respect to academic problems. The School of Dentistry and the Assist/Assoc Dean for Academic Affairs and Faculty Development will seek information from the dental and basic sciences faculty regarding student performance early in the academic semester. This will be to identify students who may be in trouble and who are reluctant to seek help. Once identified, whether by self or by the institution, students will be paired with tutors in an effort to improve their academic status. The tutors will be upperclassmen identified as having excelled in the subject matter under consideration and have volunteered to provide this service. They will be paid entirely by the School of Dentistry, or by the School of Medicine for basic sciences tutoring. In extreme cases, the Assist/Assoc Dean for Student Affairs, in conjunction with the Assist/Assoc Dean for Academic Affairs and Faculty Development, facilitate the development of special curricula or remedial programs for those students identified by the Scholastic Standards Committee as needing it.

Career counseling will be coordinated through the Office of Student Affairs in the School of Dentistry. Assistance will be provided by the Assist/Assoc Deans for Research and Clinical Services through emphasis on the importance of developing a research portfolio and clinical experience with respect to gaining admission into a specialty program and by providing opportunities for scholarly projects. A seminar will be held in late spring of the junior year to explain the application process for post-doctoral/residency programs, including the Match Program and PASS. A listing of practice opportunities throughout the United States will be maintained in the Office of Student Affairs and updated semi-annually. Students will be encouraged to consider a career in academic dentistry through participation in elective course offerings
during which time they teach in pre-clinical laboratory courses. A semester-long class on Practice Opportunities and Economics will be offered during the Junior year. It will be taught by instructors with training and experience in financial planning and practice management and will focus on the various practice opportunities by types and financial aspects. It will include units on how to avoid financial disaster, buying supplies and equipment, and guest lectures on insurances (state, federal and practice), etc.

**Assuring Student Participation on Appropriate Committees**

Student participation on appropriate committees will be important to the governance of the School of Dentistry. The following standing committees (only principal committees are listed) are anticipated to include student membership: Committees on Student Advisory, and Admissions; Curriculum Committee; Scholastic Standards Committee; Committee on Learning and Teaching; and Assessment Committee. Students will be expected to participate on other committees as developed involving critical issues such as policies, clinical management and expectations, faculty and administration performance, financial considerations, etc. Students will be voting members on all of the committees on which they are members except for the Committee on Admissions. At the beginning of each academic year, the Assist/Assoc Dean for Academic Affairs and Faculty Development, will contact each class and present them with a listing of committee service opportunities. The class will then conduct elections to fill the available positions and return this information to the Assistant/Associate Dean.

**Providing Appropriate Information about the Availability of Financial and Health Services**

Appropriate information about the availability of financial aid and health services will be provided for students by the School of Dentistry through the offices of the Assist/Assoc Deans of Student Affairs and Finances. Accepted applicants to the School of Dentistry will begin to receive additional information about these services shortly after their selection.

The bulletin of the School of Dentistry will provide a general outline of financial aid programs available as well as the health insurance requirements, student health insurance plan, and student health services that will be available. More specific information will be distributed to students as they apply to dental school and are accepted. Collectively these documents will ensure that appropriate information is provided regarding the availability of financial aid and health services.

**Developing and Reviewing Specific Written Procedures to Ensure Due Process and the Protection of the Rights of Students**

Students will be informed of their rights and responsibilities via the Honor Code. At the beginning of each academic year, the Assist/Assoc Dean for Student Affairs will distribute a copy of this document to all students and will collect from them a signed pledge that indicates an agreement to abide by its terms. Student rights and responsibilities will be clearly articulated.

Written procedures which ensure due process and the protection of the rights of students will be contained in the University Student Handbook and bulletin of the University of Utah School of Dentistry. Policy and procedures that govern student rights on academic action, appeal of academic actions, mistreatment or infractions of the standards of conduct, management of non-academic complains, etc., will be found in the University of Utah Code of Student Rights and Responsibilities (website at http://www.regulations.utah.edu/academics/6-400.html). Copies of references for these policies and procedures will be distributed annually to the students by the Office of Student Affairs.
The policy regarding the confidentiality of student records is in keeping with the Federal “Family Education Rights and Privacy Act” (FERPA). It guarantees students the right to inspect their academic records for accuracy and provides them with an avenue to amend such records, if necessary. It also assures the security of those records by restricting to whom they can be released without the consent of the student. Grades will be distributed following all major examinations to inform students of their performance and to ensure the accuracy of student records. To further ensure the accuracy of student records, the Assist/Assoc Dean for Academic Affairs and the University Registrar will distribute grades to students on a semester basis. If a discrepancy in either of the two above cited practices is encountered, the Policy for the Appeal of Academic process and Grades will be invoked.

**Student Advocacy**

The Assist/Assoc Dean for Student Affairs will be the principal advocate for students and the job description for this position will clearly define this role. The Assist/Assoc Dean will sit on the Scholastic Standards and Assessment Committees. In both cases, he/she will be a non-voting member with the specific purpose of assisting students in the preparation and presentation of their cases as well as overseeing that due process is followed and students’ rights are protected.

In summary, the School of Dentistry will assure student advisement by providing student services that include: personal, academic and career counseling; student participation on appropriate committees; appropriate information about the availability of financial aid and health services; written procedures to ensure due process and the protection of the rights of students; and student advocacy.

**Justification for Graduation Standards and Number of Credits**

The degree is not granted by the number of credit hours, but by the satisfactory completion of the prescribed courses in the four year curriculum and by having a minimum GPA of 2.0.

**External Review and Accreditation**

Consultants from Creighton University School of Dentistry were involved in the development of the proposed program. The new dental school will adopt the Creighton program for transition to a full four year degree granting program because it has been successful for Utah students producing well-educated and qualified dentists. For over 25 years Utah students in the RDEP program have used Creighton’s first year curriculum at the University of Utah then have taken the 2nd, 3rd and 4th years at Creighton. It seems logical to utilize Creighton’s curriculum as the basis of the Utah dental school as it is a fully accredited curriculum.

Accreditation will be sought through the American Dental Association for Initial Accreditation of the proposed new dental school and degree. Accreditation is important so that our graduates will be eligible for licensing. The first application was submitted, it passed the first stage of review, and was considered by the accrediting board to be a “stellar application”. A site visit has been scheduled for the end of March 2012 and accreditation should be received in August 2012. This schedule puts the process one year ahead of the ADA requirement of having initial accreditation before the first students begin in August 2013. No additional costs are required beyond those included in the current and year one budgets.
Projected Program Enrollment and Graduates; Projected Faculty/Students

<table>
<thead>
<tr>
<th>Data Category</th>
<th>Current-Prior to New Program Implementation</th>
<th>Projected Year 1</th>
<th>Projected Year 2</th>
<th>Projected Year 3</th>
<th>Projected Year 4</th>
<th>Projected Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Graduates (Residents) in Proposed Program</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Total # of declared majors in Proposed Program</td>
<td>10</td>
<td>20</td>
<td>40</td>
<td>60</td>
<td>80</td>
<td>80</td>
</tr>
<tr>
<td>Total School Faculty FTE (as reported in Faculty table above)</td>
<td>20</td>
<td>20</td>
<td>30</td>
<td>50</td>
<td>64</td>
<td>64</td>
</tr>
<tr>
<td>Total college Student FTE</td>
<td>20</td>
<td>30</td>
<td>50</td>
<td>70</td>
<td>90</td>
<td>90</td>
</tr>
<tr>
<td>Student FTE per Faculty FTE (ratio of total college Faculty FTE and total college student FTE)</td>
<td>1</td>
<td>1.33</td>
<td>1.67</td>
<td>1.4</td>
<td>1.4</td>
<td>1.4</td>
</tr>
</tbody>
</table>

Expansion of Existing Program

This is a new degree and School and not an expansion of an existing program. However, this will allow us to transition a one-year contract program to a full four-year degree-granting program.

Section III: Need

Program Need

The University of Utah Health Sciences, in behalf of the State of Utah, has participated in a Regional Dental Education Program (RDEP) for more than twenty-five years. Under this American Dental Association (ADA) accredited contractual program, Utah students have received the first year of dental school at the University of Utah and the second, third and fourth years at Creighton University School of Dentistry. The students have matriculated, graduated and received their DDS degree from Creighton University. The first year curriculum at the University of Utah in the RDEP program is the same as that offered at Creighton University School of Dentistry, and the students take the same competency examinations. The Utah students are co-mingled with the traditional Creighton students at Creighton University for the remainder of their education. We are confident the RDEP program graduates well-educated and clinically competent dentists as evidenced by the results on examinations and evaluations of any kind, including National Boards where the Utah students (as a group) score above the national average and generally rank in the top quintile.

At the University of Utah, because of the RDEP program the first step toward a fully operational dental school has already been taken. Twenty-five percent of the curriculum (i.e., first year) is already in place and has been functioning for more than twenty-five years. The current RDEP program is fully accredited by the ADA (as part of Creighton’s accreditation). This program is currently producing well-qualified dentists. Having a first year, fully functional curriculum with experienced faculty and staff already in place will serve...
as a foundation upon which we can build faculty, adopt the remainder of the curriculum, extend current research opportunities, and utilize existing facilities to efficiently transition into a fully accredited School of Dentistry at the University of Utah.

We currently have in place all basic science faculty needed for curriculum implementation and teaching. Already existing and currently being used by our existing dental program are sufficient-sized lecture rooms, histology laboratories and equipment, gross anatomy laboratories and cadavers, simulation/technique laboratories and University of Utah community dental clinics. These resources are available for our proposed dental school and sufficient funds are in University of Utah accounts specifically designated to cover the costs of constructing a new fully equipped dental school building and facility to complement our current physical facilities and to accommodate the proposed the School of Dentistry.

Because of our experience and success with the existing curriculum, evaluation methods and access to the philosophy of Creighton University, our curriculum and materials for the new University of Utah School of Dentistry will continue to be based on those from Creighton University School of Dentistry. Our faculty and students have participated in this curriculum for more than twenty-five years and the State of Utah has greatly benefited from the results as many of the RDEP graduates have returned to Utah to serve its citizens. In the past few years it has become evident that the time has arrived to expand the dental training that is offered by the University of Utah to the citizens of this State by converting the RDEP program into a fully accredited School of Dentistry that is authorized to award a doctorate of dental surgery (D.D.S.) degree to its graduates: this will allow these graduates to become licensed and qualified in every way to practice dentistry both in Utah and throughout the country. The creation of this School of Dentistry will greatly complement existing health care training and services already available to the citizens of Utah through the University of Utah and will be of tremendous health and economic benefit to this state. To achieve this objective we will employ the four-year basic curriculum and program of Creighton with the caveat that adjustments will be made to accommodate special needs and resources of the University of Utah and state of Utah. Permission has been received from Creighton University School of Dentistry to adopt, adapt and use their curriculum and materials accordingly.

In 2002, the idea and concept of a dental school at the University of Utah was first presented to the Senior Vice President for Health Sciences. The concept was then taken to the Executive Committee of the Utah Dental Association to discuss the feasibility of a dental school in Utah. This was followed by a series of meetings and presentations to the District Dental Societies throughout the State of Utah. A financial plan was developed to determine the economic feasibility. The Utah Medical Education Council (MEC) conducted a dental workforce study in 2002 and again in 2006 to determine future workforce needs for the State.

The outcome of the meetings and studies were as follows:

1) It is financially feasible to establish a School of Dentistry at the University of Utah due to the development of substantial funds and a $30 million gift to help build and establish the School. This reduces the need for State funds to a relatively small amount for annual operations. The MEC workforce studies identified a need for additional dentists now and in the future in order to maintain our current (below national average) dentists per 100,000 population.

2) The Senior Vice President for Health Sciences at the University of Utah granted permission for the development of a proposal to establish a School of Dentistry at the University of Utah. The initial concept and program was put together by Dr. G. Lynn Powell, DDS, Dr. Gordon Christensen, DDS, and Mr. David
Squire, BA, MS. The proposal was presented to the Executive Committee of the Utah Dental Association (UDA) and was then presented at three different Utah Dental Association general invitation meetings in various parts of the state to seek input from the dentists and the community. These meetings were headed by the then President of the Utah Dental Association, Dr. Randall Mattson. Modifications and changes were made to the proposal based on input from these meetings and additional members were added to the planning group, including: Dr. Ron S. Bowen, (President of the Utah Dental Association at the time); Cathy Anderson, Assist/Assoc Dean of Finances, School of Medicine; University of Utah representatives and selected dental faculty members.

3) The revised proposal was then presented at a series of eight different dental meetings by Dr. Ron S. Bowen, Dr. G. Lynn Powell, and Dr. Gordon Christensen. Input and support was also sought and received from two members (dentists) of the Utah State Legislature (Dr. Peter C. Knudson and Dr. Allen M. Christensen). The proposal, including financials, was again revised and with the support of the Utah Dental Association, presented to the Vice President for Health Sciences.

4) The following committees were established with Dr. G. Lynn Powell as the Chairman to develop further the proposal:

   i) A Facilities Planning Committee was formed at the University of Utah and included members of the Utah Dental Association (Dr. Ron Bowen and Dr. Gordon Christensen).

   ii) A Strategic Goals and Assessment Committee was developed with faculty and leadership from the University of Utah. Additional members were Dr. Steven Steed from the State Health Department, Dr. Scott L. Theurer and Mr. Monte Thompson from the Utah Dental Association.

   iii) A Curriculum and Accreditation Committee comprised of University of Utah dental faculty and School of Medicine faculty, members of the Utah Dental Association (Dr. A.J. Smith, Dr. Gordon Christensen and Dr. George Bailey) was formed.

A new building to house the School of Dentistry at the University of Utah is currently being designed and a location determined. The new building will contain classroom space and the various clinic and pre-clinic areas needed to support the education of the students. It will contain administration areas, faculty offices and research areas and all of the support areas needed for the operation of the School. The University of Utah has approved the building and location. The dental program has received sufficient private and non-state funds (including a $30 million gift from one family) to design, build and fully equip the facility. This generous donation was given with the condition that the School of Dentistry is approved and initiated by the 2013/2014 academic year. As a non-state funded building, its plans have been proposed to and approved by the State Building Board. The plans will now be submitted to the State Legislature for approval. It is anticipated that the building will be ready for occupancy in the fall of 2014. In the meantime, our current facilities (classrooms, pre-clinical labs, basic science facilities and faculty offices) would be used for the first year curriculum of the entering class.

The needs-based development of the dental school formed the backdrop for determining the program’s class size. We attempted to strike a balance between maintaining the current supply of dentists in the state and to avoid unnecessary competition with established practitioners coupled with having an adequate class size to achieve fiscal stability. A student body of up to 50 students per class fits the projected needs identified by the MEC and provides sufficient financial resources without high tuition costs.
As mentioned above, we currently offer a fully accredited first year curriculum of dental school as part of the contract program with Creighton University School of Dentistry. Annually this program accepts 10 students plus a separate, but parallel, program that accepts an additional 10 students each year. The students in both programs (for a total of 80 students at any one time) receive the vast majority of their dental training outside of Utah as out-of-state students at public institutions or at very expensive private dental schools. A School of Dentistry at the University of Utah will allow these, and other dental students as needed from Utah, to stay in state and take advantage of the outstanding resources at the University of Utah to receive their dental training. This will be of great financial benefit to Utah in-state students as well as be a tremendous economic benefit to USHE, the University of Utah and the state of Utah as a whole.

In addition, we offer a fully accredited General Practice Residency (with ten GPR residents per year) in conjunction with the University of Utah Hospital. We anticipate that once the School of Dentistry is fully established, we will continue to offer this very successful program as well as other selected specialty training programs as may be identified by the practicing community and needs of the community.

**Labor Market Demand**

Each year approximately 4500 new doctorate degrees in dentistry are given to graduates from accredited dental programs in the United States. After receiving their D.D.S., or equivalent (e.g., DMD) degrees, dentists have several post-graduation options that include:

(i) practice of general dentistry either as an associate to an established practitioner or group, or as an independent private clinician

(ii) additional training in residency and programs leading to master's or doctorate degrees, or certificates, such as
   - general dentistry
   - oral surgery
   - pedodontics
   - prosthodontics
   - orthodontics
   - endodontics
   - periodontics
   - oral pathology
   - public Health
   - research-based programs that lead to the Ph.D. degree—e.g., microbiology, pharmacology, biochemistry, neuroscience, anatomy, etc.

(iii) Institutional practice in organizations such as the military, Public Health Corp or total health care systems (e.g. IHC)

(iv) Research at academic centers or private industry

An overarching objective of the University of Utah School of Dentistry will be to assure that the citizens of Utah receive sufficient outstanding dental care to meet their health-care demands and needs. This will be done in the following ways:

(i) The administration of the dental school will work closely with the State of Utah and local dental associations and practitioners to frequently and accurately assess dental needs of the community
in order to adjust their student population (both the quantity and nature of their programs) to address the State’s requirements. For example, to the extent that health care is reformed due to discoveries in the health sciences, changes in the patient demographics (citizens in the state become older or younger), the mode of practicing shifts (e.g., more emphasis on prevention or holistic medicine) or payment systems are modified, the School of Dentistry will provide the necessary training to its students and trainees to be able to adjust to the changes. In addition, as new needs are identified, the School of Dentistry will also organize and implement continuing education programs to help the dental profession in the State and region to better serve the dental needs of the community.

(ii) The dental school will use strategies such as scholarships and subsidized grants to incentivize dental graduates to go to state regions with unmet dental needs. In addition, through matriculated dental students and residents, the School of Dentistry will staff satellite clinics in areas of need to help address.

Based on information from the Utah Medical Education Council (MEC), it appears there are insufficient dentists establishing practices in Utah to maintain the current dentist to population ratio (56.8/100,000 population), which is already below the national average (59.8/100,000). The 2008 MEC report indicated that we need 75-85 new dentists/year with a net increase of 36-40 per year to maintain our current ratio. That Utah has need for additional dental manpower is further supported by an American Dental Association (ADA) report that the Utah dental workforces is significantly lower than that in the Pacific, New England or Middle Atlantic regions and even some of the Mountain states like Montana. The report further suggests that the current number of Utah dentists is declining, reflecting a trend that is also occurring at the national level. The declining numbers are likely to further reduce the Utah dentists/population ratio, especially in light of a fairly robust Utah population annual growth of approximately 1-2%. The following are specific reports that support this conclusion.

- In 2009 and 2010 there was only an annual net increase of 18 dental licenses/year compared to the annual average of 33 new licenses in Utah for 1998-2008 (in 2010 more dental licenses expired than were issued).
- In 2006-2010 there was an annual increase of 22 dental malpractice insurance policies, however, in 2010 there was a net decrease of 4 policies.
- Based on ADA reports, fewer Utah students are returning to Utah to practice because of economics, lower fees/service, and skyrocketing debt resulting from being forced to attend expensive out-of-state public and private dental schools.
- The shortage of dentists in Utah is especially severe in rural areas that offer fewer economic incentives than larger metropolitan regions located along the Wasatch front.

Student Demand

The profession of dentistry provides a medical career that has special appeal to Utah students. This is due to its high professional regard, opportunities for entrepreneurial independence and satisfying professional development, exceptional economic benefits and a desirable life-style option. Consequently, the ADA has reported that Utah has the highest applicant rate for dental schools in the country. This is reflected in the fact that 170-200 applications are considered annually for the RDEP program at the University of Utah. The ADA also reported in 2004 that 168 first-year students who claimed Utah as their residence were matriculated in dental schools throughout the country. Although data are not available, it is very probably that approximately 2-3 times this number actually applied as the acceptance rate for dental school has
been approximately 50%. Despite this historically high demand, a full 4-year, state-supported dental program has not been available to Utah residents. More recently there has been a disturbing trend that tuition and fees for dental programs, especially those associated with expensive private institutions and those required of non-resident students at state-supported schools, have skyrocketed: consequently, it is frequent that Utah dental students have total expenses of $85,000 to $115,000/year for tuition and fees and cost of living. Thus, upon graduation these students can have debt approaching $0.5 million. It is expected that the prospects of such staggering and seemingly escalating debt will make a dental education inaccessible to many Utah students and force these students to select less desirable, but more affordable careers. This appears to be already occurring based on recent reports that Utah first-year dental students declined from 168 (2004) to 134 (2008), despite the fact that the number of graduates from Utah universities has been steadily increasing. It is proposed that the most appropriate strategy to address these undesirable circumstances is to establish a fiscally sound dental school that fully utilizes the outstanding resources of the University of Utah to offer an affordable high-quality dental education to qualified in-state residents.

Similar Programs

The proposed School of Dentistry at the University of Utah would be the first dental school at any of the state-owned universities or colleges in the state of Utah. Because of its strong history and impressive record of training students to become physicians, pharmacists, and nurses, it is appropriate to build on this tradition at the University of Utah and apply the exceptional resources and expertise to create a School of Dentistry that will have a strong research emphasis and rapidly become ranked among the leading dental programs in the country.

While there are no dental schools within the State of Utah Higher Education System, there is a private dental program in Salt Lake City that was originally known as the University of Southern Nevada and recently changed its name to Roseman University. This Nevada-based proprietary institution only recently initiated its dental program (Fall of 2011) and differs considerably from the proposed School of Dentistry at the University of Utah as summarized in the following table:

<table>
<thead>
<tr>
<th>Philosophy</th>
<th>University of Utah</th>
<th>University of Southern Nevada (Roseman)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• Answers to the state of Utah, its citizens and institutions and is part of the state’s higher education system.</td>
<td>• Answers to its investors, Board of Directors and/CEO based in southern Nevada. No obligation or commitment to the state or people of Utah per se. It is basically a franchise endeavor with intended programs throughout the country.</td>
</tr>
<tr>
<td></td>
<td>• Designed to optimize dental services to people of Utah and their unique needs.</td>
<td>• Organization and strategies based on business models that optimize profits and minimize</td>
</tr>
<tr>
<td>Resources</td>
<td>expenses</td>
<td></td>
</tr>
<tr>
<td>-----------</td>
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</tr>
<tr>
<td>• Will construct a new state-of-the-art dental structure with exceptional, University owned and paid for, education and clinical facilities designed especially for dental and related education and services. This facility will be of no cost to the state but built with donated money from a generous philanthropic gift.</td>
<td>-Supported principally by student tuitions and fees, reported to approximate $75-80,000/yr</td>
<td></td>
</tr>
<tr>
<td>• Access to state-of-the-art Health Education Building</td>
<td>• Currently has no research mission, no company spinoffs potential, no standing endowment, no continuing education mission.</td>
<td></td>
</tr>
<tr>
<td>• Access to hospital and attending medical services</td>
<td>• Leases a generic office building owned by Layton Construction that has been retro-fitted for dental education purposes with minimal clinical facilities</td>
<td></td>
</tr>
<tr>
<td>• Access to supportive residency programs and community clinics</td>
<td>• A lack of resources, no reputation or history, an outdated education/clinical experience program and tuition requirements that are comparable to the most expensive private programs in the country (at least~$80,000/year), likely will severely limit the selection of students to those who have difficulty getting accepted to more established, better equipped and less expensive programs.</td>
<td></td>
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<tr>
<td>• Partnership with Utah Department of Health including its dental programs; including clinical services and training arrangements</td>
<td>• Low-cost strategies that use considerable teleconference in place of one-on-one in person tutoring, and employs platoon teaching (some teachers are only in town for a couple of weeks and do “block” teaching) that allows only limited access by students to instructors, professors or mentors. It also results in silo</td>
<td></td>
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<tr>
<td>• Close working relationship with state dental society. This partnership has been in place for years working with the RDEP program. The UDA is very supportive of the dental school</td>
<td></td>
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<tr>
<td>Student body and financial support</td>
<td>Education strategy</td>
<td></td>
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<tr>
<td>• Slots will be highly competitive, and in demand, due to the reputation of the University of Utah, its outstanding teaching and research faculty and resources as well as its very competitive state-related tuitions. The dental school will be particularly attractive to in-state students who will pay ~$29,000 annual tuition and even out-of-state students who will pay ~$54,000. Because of these conditions, it is anticipated that the majority of the best-prepared Utah students who historically were forced to leave the state to attend dental school (&gt;140/yr) will compete for the available slots annually. Consequently the dental school will be able to select the best prepared for its student body.</td>
<td></td>
<td></td>
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<tr>
<td>• Uses teaching and clinical strategies that are consistent with best practices and outcomes at the finest dental schools throughout the country. This is due to outstanding resources, experience and endowment support at the University of Utah. This program will be comparable to teaching (one topic at a time) and does not allow for integration of information (e.g. organ systems) like that used by the most sophisticated and experienced dental and medical programs.</td>
<td></td>
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<tr>
<td>• Due to limited clinical resources and the lack of a “track record”, the nature of clinical training is not clear, consequently it is not apparent how the limited clinical resources will impact clinical competencies of graduates of the program.</td>
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<tr>
<td>• Tuition or any revenue belongs to the parent organization in Nevada, its Board of Directors and investors</td>
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<tr>
<td>• The dentists, and most of the instructors are brought in from out of state and may only stay in Utah for less than a month and take their pay checks to their home states. They use a “block” approach to teach</td>
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Assets to state of Utah

other outstanding dental schools across the country associated with medical schools and other health care training programs. Its association with nationally recognized medical, pharmacy and nursing schools will allow for integrated experiences that will allow students from this program to feel comfortable in the holistic health care teams of the future.

- Professors and instructors, both basic science as well as clinical will be local and readily available to students according to their needs to optimize mentoring experiences and outcomes
- Research will be a critical piece of this dental school, a policy consistent with the overall mission of a research institution such as the University of Utah. This provides students important opportunities to develop appreciation for, and skills to analyze and participate in, the research process. In addition, having professors and instructors who also are researchers themselves brings to the classroom or clinic a better appreciation of how health care should work and how it evolves. Bottom line is that the dental clinician of the 21st century must be more than just a technician, but a thoughtful person of science who applies the scientific method to his/her clinical skills and understanding of clinical situations.

- A University of Utah School of Dentistry is designed to keep and train the best in-state students. It will retain their tuition and other expenses in state as investments to enhance the quality of Utah education system
- Research dollars and outcomes will benefit the state and the University
- Spinoff companies with dental-related focus will contribute to the economic well-being of the State
- It will provide jobs and salary for the in-state community that will stimulate the economy. Provides opportunity for involvement in topics rather than the integrated strategies employed by most clinical training programs.

- There is no research or entrepreneurial emphasis, thus no benefit in this regard to the state
- A minority of the students are in-state; many are internationals
- This is a national franchise operation based in Nevada with no particular obligation or allegiance to state of Utah
dental education and research to local dental societies and clinicians. It will provide a prestigious identity with a highly regarded institution known for its reputation in medical education, research and entrepreneurial contributions.

- It will bring added prestige for the University, USHE and the state of Utah
- It will provide a service resource to render dental care to underserved populations
- It will be an affordable resource for training and upgrading of skills to the Utah dental community

- The University of Utah has provided dental education for ~ 25 years through the RDEP and general dentistry residencies. At any one time, this has included 40 dental students (10 per year) and 10 residents. It has involved not only classroom instructions for the freshman year, but also clinical instruction and services in hospital and communities facilities. It also has provided clinical experiences for dental students who rotate back to the University of Utah during their senior year.
- In addition, there is another 40 Utah dental students at any one time who are enrolled in other dental schools around the nation who are also associated with the RDEP program, but did not do their freshman year at this University. These programs have provided important experiences and foundation upon which a full-service dental school can be developed

- This is the first attempt by this organization to initiate and operate a dental school. Although the current dean has worked with a couple of other private dental programs around the country, this organization is not building on an existing physical or academic infrastructure in Utah and is new to the “dental education experience”. Everything is being developed from scratch employing untried strategies that are driven more by fiscal and profit considerations than by established education practices.

**Collaboration with and Impact on Other USHE Institutions**

Because no other USHE institution has a school of dentistry nor is in a position to award the D.D.S. degree or a program leading to a doctorate in dentistry, this question does not apply. As mentioned above, only the University of Utah has the background and history of clinical training that would enable it to develop a high quality, successful dentistry program. Consequently, collaborative efforts in regard to the Dental School are not likely at this time.

However, while the proposed School of Dentistry at the University of Utah will be the first in the USHE, it will be highly integrative with other clinical training and related services as follows:
The School of Dentistry will be integrated into the University of Utah and the Health Sciences programs. The School will expand the existing dental program and continue its current relationship which includes an existing agreement with the University of Utah Hospital for functioning clinics that are located: 1) at the University of Utah hospital within the health sciences complex and 2) at the University of Utah owned and operated Greenwood Dental Clinic located on 7495 South State Street, Salt Lake, City, Utah. Both clinics currently serve the General Practice Residency program as primary care dental clinics. The hospital clinic also supports the first-year occlusion courses for occlusal analysis procedures and preventive dentistry.

Faculty from the School of Dentistry will serve on appropriate governing councils and committees as do faculty from the schools of Medicine, Pharmacy, Nursing, etc. Additionally, School administrators, such as the Dean, will also serve on appropriate health science committees, e.g. Medical Science Council, Dean's Forum, etc. Specifically, the School of Dentistry will participate in University common governance by having representatives on the following University Committees by the time the first freshman predoctoral class begins coursework; (i) Academic Senate; (ii) Graduate Council; (iii) University Promotion and Tenure Advisory Committee (UPTAC); (iv) Academic Appeal Committee; (iv) University RPT Standards Committee; (v) University Teaching Committee; and (vi) Academic Appeal Committee. Faculty representatives from the School of Dentistry will also be assigned to serve on other important and relevant University of Utah common governance committees as the faculty numbers increase permitting such participation.

Further evidence of interaction is demonstrated by the fact that faculty from the University of Utah School of Medicine currently instruct the first-year RDEP dental students along with the medical students in embryology, histology, and gross anatomy courses. Neuroanatomy, biochemistry and physiology classes oriented specifically for the dental students are also taught as separate courses to the dental students by faculty from the School of Medicine. Faculty from the College of Pharmacy will also participate in student instruction in the School of Dentistry. We anticipate that these collaborative and interactive relations will continue with the establishment of the School of Dentistry.

The RDEP program has a close relationship with the Spencer S. Eccles Health Science Library allowing the students full access, as well as educational training and services for faculty through their facilities. This will continue with the new School of Dentistry. The library maintains a large collection of dental journals and dental textbooks for student studies and research. Dental students also will have access to the University of Utah’s Marriott Library and its full array of educational and research services.

The RDEP program is currently developing collaborative research opportunities with the School of Medicine and the Huntsman Cancer Institute and for the School of Dentistry it is intended to expand to build a robust research program relationship which will also include the University of Utah Colleges of Pharmacy, Engineering, Biological Sciences, Chemistry, Behavioral Sciences, and others who will contribute to the fulfillment of our Strategic Goal to advance oral health through research and its application.

The School of Dentistry will also build upon its current relationship with the Department of Pathology in the School of Medicine and ARUP (Associated Regional and University Pathologists). For almost twenty-five years the Dental Education Program at the University of Utah has functioned within the Department of Pathology. With the creation of a new dental school program it is our intent to enrich our curriculum by our continued association and collaboration with these and other relevant biomedical efforts.
Benefits

The inclusion of a School of Dentistry in the USHE, specifically at the University of Utah, will for the first time provide access for qualified Utah students to training in all of the major medical professions. This will make it possible to integrate the training of physicians, pharmacists, nurses, and now dentist so they feel comfortable working together and combine their clinical services in a holistic manner as they work to provide optimal health care to the citizens of Utah. In addition, the proposed University of Utah School of Dentistry will bring considerable direct economic benefits to the State of Utah including the following:

- The annual $8+ million these students currently spend for educational expenses, and generate due to clinical services performed in out-of-state dental schools, will now be kept in Utah.
- The student's tuition and fees (cost of education) will be reduced by over $100,000-$200,000/student due to in-state rates to Utah residents.
- The State/University will save $1 – 1.5 million annually by not paying reimbursement to students and contract costs (i.e., those students trained out of state who return to practice in Utah-this currently is part of the RDEP program).
- 80 - 100 new, high-paying jobs created at the University will be added to the state economy.
- Fast-track construction of a new dental science-dedicated building at no expense to the State (except O&M) will bring $30 million in construction costs to Utah.

These economic benefits will result from no additional cost to the State (no increase in current base appropriation for 20 entering Utah students/year). The proposed dental program will effectively attract more dentists to practice in rural Utah and help address the need for accessible dental care to this underserved population. This will be achieved by the following strategies:

i) Selection of students: Accept a set number of students from rural areas, because they are more likely to return to rural areas to practice.
ii) Scholarship: Offer specially designated scholarships to students who come from rural areas.
iii) Reimbursement: Set amount of reimbursement dollars for 3-5 years of practicing in a rural area.
iv) Rotate dental students through the rural community clinics with the general dentistry residents to provide exposure to the unique features and benefits of this environment.
v) Establish a mobile Dental Unit in conjunction with the State Health Department that will allow faculty and students to provide dental care to rural areas.

Other economical and health care benefits of the dental school at the University of Utah include major research opportunities in:

- Oral pain management (partnering with the drug-development program of the Antiseizure Drug Development program)
- Genetics of oral diseases (using the Utah Population Data Base) (partnering with the Department of Informatics and Human Genetics)
- Oral pathology (partnering with HCI and ARUP)
- Dental product development (partnering with Dr. Gordon Christensen)
- Medication development for management of oral diseases (partnering with the College of Pharmacy)
- Addiction disorders (screening and brief intervention program for prescription abuse, tobacco and alcohol management and their oral consequences) (partnering with the Utah Addiction Center)
- Development and management of hard and soft tissue diseases (partnering with the Department of Bioengineering)

From evaluations of other comparable state-associated research-related dental schools and the unique research-promoting environment of the University of Utah, it is realistically projected that a School of Dentistry at the University of Utah will generate >$6 million/year in research dollars and will be included in the top 10% of dental schools within 10 years of initiation. These revenues will be spent in Utah and result in ~40 additional jobs.

A new dental school at the University of Utah will provide entrepreneurial opportunities by taking advantage of programs such as state-supported USTAR (e.g., start-up companies) related to dental services and products, likely at the same level as the College of Pharmacy, a school of comparable size. For example, the College of Pharmacy has accounted for 10 new start-up companies in the past 15 years (i.e., Sentrx Surgical, Theratec, Macromed, Glycosan BioSystems, Carbylan BioSurgery, Echelon Biosciences, Lipocine, Aciont, Neuroadjuvants, Symbion Discovery) as well as contributed to several others. It is noteworthy that without a dental school, the University has not contributed to any dental-related start-up company but establishment of a dental program at the U of U will allow development of this new, exciting and heretofore untapped market.

Consistency with Institutional Mission

The University of Utah has a strong tradition of training professionals in most aspects of the biomedical field. This institution is especially noted for research and entrepreneurial spirit as evidenced by its success in competing for grants, contracts and initiating start-up companies. Despite its exceptional track record in this regard, and the high demand by Utah students to receive training in the dental field, the USHE has had minimal opportunities to be involved in dental education and consequently, it has made few contributions and had little influence in dentistry. As discussed above, the addition of a School of Dentistry at the University of Utah will help fill these gaps and provide much needed, but heretofore lacking, opportunities of dental-related training and entrepreneurial development.

Section IV: Program and Student Assessment

Program Assessment

Expected Standards of Performance

These two sections are closely linked in that the success of the School of Dentistry will for the most part be determined by the performance and competencies of its student body. Thus the responses for these sections have been integrated below by identifying and explaining critical standards that will serve as the foundation for the University of Utah School of Dentistry. These standards, competencies, assessments and associated coursework are consistent with that of the University of Creighton School of Dentistry and reflect the accreditation requirements of the American Dental Association and are described below:
Standard 1: Individual evaluations will be performed in accordance with institutional due process policies to access student performance and achievement of competencies.

At the University of Utah School of Dentistry, implementation of this standard will be a three-step process, the first of which will be to inform the students of the didactic, behavioral and/or clinical expectations that exist for them. Three primary sources of information will exist for this purpose. As a part of the registration process at the beginning of each academic year, the Office of the Assist/Assoc Dean of Student Affairs will distribute electronically a packet of information to each student that is year-specific regarding student academic and behavioral expectations as well as all School policies and practices that govern such activity during that academic year. This information will be more global in scope and will include the following:

1. Freshman Year
   a. Honor Code and Pledge
   b. Policy and Procedure for the Promotion of Academic Integrity and the Management of Academic Misconduct
   c. Policy for the Management of Failing Grades
   d. Policy for the Appeal of Academic Process and Grades
   e. Policy for the Management of Non-Academic Complaints
   f. Policy on Re-Hearings by the Scholastic Standards Committee and the Appeal process
   g. Notice of Opportunity and Procedure to File Complaints with the Commission on Dental Accreditation
   h. Competency Examinations Administered During the Freshman Year which also includes a brief description of each examination and the competencies covered by that test
   i. Competencies for the University of Utah School of Dentistry which includes the competency definitions, the evaluation criteria and the academic year in which the criteria are applied
   j. Procedures and Practices for Promotion for the Freshman Year
   k. Attendance standard
   l. Dress Standard
   m. Confidentiality of Student Records / FERPA
   n. Statement of Patient Rights at the University of Utah School of Dentistry

2. Sophomore Year
   a. Honor Code and Pledge
   b. Policy and Procedure for the Promotion of Academic Integrity and the Management of Academic...
Misconduct Policy for the Management of Failing Grades

c. Policy for the Appeal of Academic Process and Grades

d. Policy for the Management of Non-Academic Complaints

e. Policy on Re-Hearings by the Academic Committee and the Appeal Process

f. Notice of Opportunity and Procedure to File Complaints With the Commission on Dental Accreditation

g. Competency Examinations Administered During the Sophomore Year which also includes a brief description of each examination and the competencies covered by that test

h. Competencies for the University of Utah School of Dentistry which includes the competency definitions, the evaluation criteria and the academic year in which the criteria are applied

i. Policy Regarding Eligibility for Taking Board Examinations

j. Procedures and Practices for Promotion for the Sophomore Year

k. Part I National Board Examination Policy which deals primarily with those students who fail to successfully complete the examination on their initial attempt.

l. Attendance Standard

m. Dress Standard

n. Confidentiality of Student Records/FERPA

o. Statement of Patient Rights at the University of Utah School of Dentistry

3. Junior Year

a. Honor Code and Pledge

b. Policy and Procedure for the Promotion of Academic Integrity and the Management of Academic Misconduct

c. Policy for the Management of Failing Grades

d. Policy for the Appeal of Academic Process and Grades

e. Policy for the Management of Non-Academic Complaints

f. Policy on Re-Hearing by the Scholastic Standards Committee and the Appeal Process

g. Notice of Opportunity and Procedure to File Complaints With the Commission on Dental Accreditation

h. Competency Examinations Administered During the Junior Year which also includes a brief description of each examination and the competencies covered by that test
i. Competencies for the University of Utah School of Dentistry which includes the competency definitions, the evaluation criteria and the academic year in which the criteria are applied

j. Procedures and Practices for Promotion for the Junior Year

k. Policy Regarding Eligibility for Taking Board Examinations

l. Part I National Board Examination Policy which deals primarily with those students who fail to successfully complete the examination on their initial attempt

m. Annual Clinical Performance Standards

n. Policy for Students Who Fail to Meet Clinical Performance Standards

o. Attendance Standard

p. Dress Standard

q. Confidentiality of Student Records/FERPA

r. Statement of Patient Rights at the University of Utah School of Dentistry

4. Senior Year

a. Honor Code and Pledge

b. Policy and Procedure for the Promotion of Academic Integrity and the Management of Academic Misconduct

c. Policy for the Management of Failing Grades

d. Policy for the Appeal of Academic Process and Grades

e. Policy on Re-Hearings by the Scholastic Standards Committee and the Appeal Process

f. Notice of Opportunity and Procedure to File Complaints With the Commission on Dental Accreditation

g. Competency Examinations Administered During the Senior Year which also includes a brief description of each examination and the competencies covered by that test

h. Competencies for the University of Utah School of Dentistry which includes the competency definitions, the evaluation criteria and the academic year in which the criteria are applied

i. Procedures and Practices for Promotion for the Senior Year

j. Policy Regarding Eligibility for Taking Board Examinations

k. Annual Clinical Performance Standards

l. Policy for Students Who Fail to Meet Clinical Performance Standards
m. Attendance Standard

n. Dress Standard

o. Confidentiality of Student Records/FERPA

p. Statement of Patient Rights at University of Utah School of Dentistry

A second source of information, relating specifically to clinical activity and behavior expectations, will be provided by the Assist/Assoc Dean of Clinical Services prior to entry in the clinic. This will be the Clinic Manual and it will be available to the students online. The final and most specific sources of information regarding expected academic performance and behavior will be the course syllabi. They will be distributed prior to each course.

The second step in the implementation of this Standard will be to inform each student of his/her progress throughout their course of study at the University of Utah School of Dentistry. This is actually a two-tiered process. At its most basic level, all didactic, laboratory and clinical courses will provide feedback regarding student performance following examinations, the completion of specific projects, and during the provision of patient care. This information will be collected and organized by the Office of the Assist/Assoc Dean of Student Affairs. Many clinical divisions (or equivalent) will also consolidate the results of patient care experiences and provide students with monthly progress reports. At the second level, each course director will be required to submit performance information for the appropriate cohort of students to the Office of the Assist/Assoc Dean of Student Affairs on an academic semester basis. A summary of this information will then be provided to each student from the Office of the Assist/Assoc Dean of Student Affairs. If it involves a final or permanent grade, the summary will be provided by the University Registrar. If it is an interim grade, the information will be disseminated by the Office of the Assist/Assoc Dean of Student Affairs.

The third step in the implementation of this Standard will be to have the School review the performance of each student on an individual-by-individual basis and make recommendations to the Dean regarding either continued participation in the curriculum or action to be taken when a student's performance is below minimum standards. Students' academic and clinical performances will be reviewed by the Offices of the Assist/Assoc Deans of Student Affairs and Clinical Services, the Curriculum Committee, and the Assessment Committee. This is a pro-active process to review the academic performance of all students, with evaluating policies that affect office and committee functions, and with making recommendations to the Dean regarding student continuance in the program and academic policy modification as warranted. A review of student academic performance will occur at least four times a year. These meetings will be scheduled shortly after the receipt of all academic information as described above by the Office of the Assist/Assoc Dean of Student Affairs. Students' behavioral performance will be reviewed by the Office of the Assist/Assoc Dean of Student Affairs and the Curriculum Committee. This will occur as needed on a case-by-case basis.

When the Office of the Assist/Assoc Dean of Student Affairs determines that a student's performance is below minimal standards it will advise the Curriculum Committee and will have various options it can exercise in terms of making a recommendation to the Assist/Assoc Dean of Student Affairs: (i) placement on probation; (ii) continuation of current academic status; (iii) repetition of an academic year; (iv) dismissal, (v) or any other recommendation deemed to be appropriate. This information will be a part of the packet that is presented to each student at the beginning of the academic year. It will be also included in the bulletin of the University of Utah School of Dentistry. It should be noted that the primary objective in making
any recommendation is to help the student. In situations where the academic performance is considerably below the minimum standard, a determination must be made as to whether the student is capable of continuing in the curriculum or not, and if so, under what conditions. Cases such as these may call for the repeat of an academic year or termination of enrollment. When the performance is below the minimal standard but appears to be correctable, recommendations will be made that are geared toward remediation and resolution of the academic difficulty. We do not expect them to occur frequently if care is taken to matriculate highly qualified students and to monitor students’ progress carefully.

The School of Dentistry will have several approaches designed to assist students in academic difficulty. One strategy will be to have the student and the faculty member meet for tutorial/remedial sessions designed to address the noted academic shortcoming. Another will be to enroll the student in the dental school's tutorial assistance program. At the beginning of each academic year, the Office of the Assist/Assoc Dean of Student Affairs will solicit from among third and fourth year students (once these classes are in place), people who have demonstrated academic accomplishment and who would be willing to serve as paid tutors to those who are in need. Prior to that time, outstanding earlier students will be recruited. Areas of “expertise” will be identified based on past academic performance and the tutor will be paired with a student on this basis. Thus, a tutor who has excelled in pharmacology will be assigned to a student who is experiencing difficulty in that subject. Tutors will be paid by the School of Dentistry and the student receiving this service will incur no additional financial obligation. A third strategy will be to have the student who is experiencing academic difficulties be evaluated by the University Career Counseling Center to determine whether any emotional or physical conditions exist that may account for the observed student performance. For example, if a learning disorder is diagnosed and the Counseling Center recommends the implementation of specific testing conditions, appropriate course directors will be notified and changes made.

When the Curriculum Committee determines that a student's behavior has not met minimal expectations, it will work with the Office of the Assist/Assoc Dean of Student Affairs to recommend reprimand; repetition of an examination or an assignment under a different format; reduction in grade for an examination or an assignment; failing grade for an examination or an assignment; probation; suspension or expulsion from a course; incomplete grade for a course and the requirement that the course be repeated; removal from or denial of office in student organizations; request for withdrawal from School or suspension or expulsion from school; and/or suspension of clinical privileges. As in the case of substandard academic performance, recommendations will be generally designed to be corrective in nature unless the act was particularly egregious. Under extreme conditions, the Scholastic Standards Committee may also become involved to assure appropriate responses without violating the student's rights. This will be done with considerable care to assure there is no compromise of confidential issues.

Whether the problem stems from an academic or clinical issue or whether it is behavior-related oriented, all adjudications against the student will carry with them the right of due process. The Curriculum Committee will oversee this process.

Didactic, behavioral and clinical expectations will be published and distributed to students via numerous avenues with intentional overlap occurring among these sources. When students do not meet these criteria, individual evaluations will be made by the Curriculum Committee and presided over by the Assist/Assoc Dean of Student Affairs, leading to an appropriate decision in accordance with institutional due process policies.
**Standard 2: The stated goals of the dental education program will include the preparation of graduates who possess the knowledge, skills and values to begin the practice of general dentistry.**

The stated goals of the University of Utah School of Dentistry are consistent with the University of Creighton dental program and consistent with ADA accreditation requirements and will include the preparation of graduates who possess the knowledge, skills and values to begin the independent practice of general dentistry. This is the definition of competence. The mission of the School of Dentistry will be to educate and train excellent, compassionate, and ethical dentists to partner with other healthcare providers in order to serve our community and the world around us and to further our understanding and the therapeutic management of oral structures and function. Clearly, this objective in our Mission Statement fulfills the intent of this Standard.

The achievement of competence will be measured primarily through competency examinations and, to a lesser degree, through faculty ratings. The advancement toward proficiency will be achieved by the successful completion of all academic obligations (didactic and clinical) required by the institution. All graduates will have demonstrated the achievement of competence in the 30 areas set forth by the School of Dentistry as measured by performance on competency examinations and faculty observation. The attainment of these 30 competencies will be a condition for graduation. At the same time, it is anticipated that varying degrees of progress will be made toward the achievement of proficiency, depending upon the level and success of participation in those curricular activities designed to improve knowledge, skills, and values beyond competence.

Mission Statement objectives are expressed and measured as the five following Strategic Goals:

1. **Instill a Strong Code of Ethics and Community Service**

2. **Support and Maintain Academic Excellence**

3. **Provide Quality Dental Care**

4. **Promote Research to Enhance Knowledge and Advance Oral Health**

5. **Achieve the development and optimal integration of Faculty, Staff and Institutional Operations**

Goal 1 is designed to prepare graduates with the necessary values to begin the practice of general dentistry. This will be achieved through various outreach programs that instill values such as caring for others and social justice. Goal 2, to support and maintain academic excellence, is intended to prepare graduates with the requisite knowledge to begin the practice of general dentistry. This will be accomplished through various external and internal examinations, including specific competency examinations that measure knowledge, skills and values. Goal 3, to provide quality dental care, will be aimed at developing the necessary skills to begin the practice of general dentistry. With respect to accomplishment, this overlaps somewhat with Goal 2 in terms of specific competencies that measure skill development. It also emphasizes the concept of standards of care and mandates that student clinical activity meets these standards. Goal 4, to promote research to enhance knowledge and advance oral health, is concerned with faculty development, as well as preparing students to understand, critically evaluate and translate research and scholarly activity into the practice of general dentistry. Goal 5 does not have direct applicability to the preparation of graduates to enter the practice of general dentistry, however it does indirectly contribute by promoting optimal conditions for student learning and development.
The School of Dentistry will continually demonstrate the effectiveness of its programs through an ongoing assessment process. The School of Dentistry will continuously meet all five of these Strategic Goals as determined by metrics applied. This would indicate that all Mission objectives were also being met.

**Standard 3. The School of Dentistry will define the competencies needed for graduation, which must be focused on educational outcomes.**

The School of Dentistry will have 30 competency statements that represent educational outcomes for which students must demonstrate the requisite knowledge, skills and values to enter into an unsupervised general dentistry practice situation. These statements, along with their definitions, methods of measurement, and the specific academic year during which these measurements are determined are presented below.

A graduate of the School of Dentistry at the University of Utah will be competent in:

**A. BIOMEDICAL SCIENCES**

**A1. understanding the biomedical sciences and their relationship to oral health, oral diseases, and oral-related disorders.**

**DEFINITION**

1. understand basic biologic principles that consist of a core of information on the fundamental structures, functions, and interrelationships of body systems
2. recognize that the oro-facial complex is an important anatomical area that exists in a complex biological interrelationship with the entire body
3. recognize abnormal biological conditions, including their etiology, epidemiology, differential diagnosis, pathogenesis, prevention, treatment, and prognosis
4. understand the application of biological principles to clinical practice
5. understand the importance of integrating new medical knowledge and therapies with oral health care

**EVALUATION CRITERIA / METHODS**

*Freshman Year*

1. Periodontic Technique Examination
2. Occlusion Written Examination
3. Anatomic Sciences Written Examination
4. Biochemistry Written Examination
5. Physiology Written Examination
6. Dental Anatomy Written Examination
*Sophomore Year*
1. Infection Control Written Examination
2. Infection Control Technique Examination
3. Endodontic Written Examination
4. Removable Prosthodontics (Complete Denture) Written Examination
5. Oral Pathology Written Examination
6. Operative Dentistry Written Examination
7. Oral Diagnosis Examination
8. Anesthesia / Pain Control Written Examination
9. Microbiology Written Examination

*Junior Year*
1. Pharmacology Written Examination
2. Operative Dentistry Written Examination
3. Operative Dentistry Clinic (Silver Amalgam) Examination
4. Operative Dentistry Clinic (Composite Resin) Examination
5. Periodontic Clinic Examination
6. Patient Assessment and Diagnosis Clinic Examination
7. Dental Emergency Clinic Examination
8. Malocclusion and Space Management Written Examination

*Senior Year*
1. Pharmacology Written Examination
2. Operative Dentistry Clinic (Silver Amalgam) Examination
3. Operative Dentistry Clinic (Composite Resin)
4. Periodontic Clinic Examination
5. Periodontic Written Examination
6. Oral Pathology Examination
7. Oral and Maxillofacial Surgery Written Examination
8. Oral Surgery Clinical Examination
9. Implantology II Written Examination
10. Patient Assessment and Diagnosis Clinic Examination
11. Dental Emergency Written Examination
12. Dental Emergency Clinic Examination
13. Malocclusion and Space Management Written Examination
14. Malocclusion and Space Management Clinical Examination

**B. BEHAVIORAL SCIENCES**

**B1. understanding and applying the principles of behavioral science as they pertain to patient-centered approaches for promoting, improving, and maintaining oral health.**

**DEFINITION**

1. provide optimal and empathetic care for all patients, including members of diverse and vulnerable populations, and do so in a manner that respects patient autonomy
2. assess patient goals, values, needs, expectations and concerns to establish rapport and to guide patient care
3. establish a productive and confidential dentist-patient relationship
4. understand the principles of communication necessary for interaction with the public-at-large regarding the effective delivery of oral health care
5. understand that dentistry exists in a complex environment consisting of many factors that can either singly or in concert alter the way the profession is perceived
6. interact with patients in a positive manner that leads to an increased oral health awareness and a commitment to long-term health maintenance
7. recognize the role of psychological development in patient management
8. understand the relationship between oral health and self-perception
9. identify abnormal patient behavior and offer referral to appropriate resources
10. demonstrate involvement in providing education relevant to oral health care
EVALUATION CRITERIA / METHODS

Freshman Year
1. Periodontic Technique Examination

Sophomore Year
1. Removable Prosthodontic (Complete Denture) Written Examination
2. Oral Diagnosis Examination
3. Anesthesia / Pain Control Written Examination

Junior Year
1. Operative Dentistry Clinic (Silver Amalgam) Examination
2. Operative Dentistry Clinic (Composite Resin) Examination
3. Periodontic Clinic Examination
4. TMD and Orofacial Pain Written Examination
5. Community Dentistry Written Examination
6. Pediatric Dentistry Written Examination
7. Patient Assessment and Diagnosis Clinic Examination
8. Dental Emergency Clinic Examination
9. Patient and Cultural Sensitivity Written Examination
10. Health Promotion and Disease Prevention Clinic Examination (Pediatric Dentistry)

Senior Year
1. Operative Dentistry Clinic (Silver Amalgam) Examination
2. Operative Dentistry Clinic (Composite Resin)
3. Periodontic Clinic Examination
B2. managing a diverse patient population and having the interpersonal and communication skills to function successfully in a multicultural work environment.

DEFINITION

1. understand the importance of communication with patients, office personnel, dentists, and other health care colleagues regarding the effective delivery of oral health care

2. understand the organization of the health care delivery system and the prominent trends toward change

3. evaluate social and economic trends and their impact on oral health care

4. understand one’s own biases, the importance of assessing patients’ cultural beliefs, and the importance of being able to negotiate across different belief systems in a sensitive manner to ensure the delivery of effective oral health care (cultural competence)

5. understand the business principles of personnel hiring, management and training as they relate to the communication of professional responsibilities within the work environment

6. manage and utilize auxiliaries, including the practice of four-handed dentistry

7. coordinate patient treatment with a dental hygienist
EVALUATION CRITERIA / METHODS

Sophomore Year
1. Oral Diagnosis Examination
2. Anesthesia / Pain Control Written Examination

Junior Year
1. Operative Dentistry Clinic (Silver Amalgam) Examination
2. Operative Dentistry Clinic (Composite Resin) Examination
3. Community Dentistry Written Examination
4. Patient Assessment and Diagnosis Clinic Examination
5. Dental Emergency Clinic Examination
6. Patient and Cultural Sensitivity Written Examination

Senior Year
1. Operative Dentistry Clinic (Silver Amalgam) Examination
2. Operative Dentistry Clinic (Composite Resin)
3. Business of Practice Written Examination
4. Ethics in Dentistry I Written Examination
5. Patient Assessment and Diagnosis Clinic Examination
6. Dental Emergency Clinic Examination
7. Pediatric Dentistry Clinic Examination
8. Ethics in Dentistry II Written Examination
9. Special Needs Patient Clinic Examination

C. PRACTICE MANAGEMENT
C1. evaluating different models of oral health care management and delivery.

DEFINITION
1. understand the organization of the health care delivery system and the prominent trends toward change
2. understand alternative health care delivery systems

3. understand self-evaluation and stress management and be able to define career goals

4. identify factors affecting career options including solo practice, associateships, and purchasing a dental practice

5. identify factors affecting practice location, style and format

6. identify various reimbursement mechanisms

EVALUATION CRITERIA / METHODS

*Junior Year*

1. Practice Planning Written Examination

2. Community Dentistry Written Examination

*Senior Year*

1. Business of Practice Written Examination

2. Ethics in Dentistry II Written Examination

_C2. understanding the basic principles and philosophies of practice management and having the skills to function as the leader of the oral health care team._

DEFINITION

1. understand the provisions of the Utah Dental Practice Act

2. understand the American Dental Association Code of Ethics and similar practice codes

3. understand the principles of practice management regarding the education of staff personnel relative to their professional responsibilities

4. manage and utilize auxiliaries, including the practice of four-handed dentistry

5. coordinate patient treatment with a dental hygienist

6. understand the importance of developing, implementing and monitoring the business and legal aspects of a dental practice using expert resources including management consultants, accountants, attorneys, etc.

7. recognize the need to seek expert assistance in those situations where training or skills are insufficient or where such services would benefit the business and the practice

8. understand the use of business systems in a dental practice setting as they apply to scheduling, record keeping, reimbursement, and financial arrangements

9. understand the various responsibilities of operating a business and the attendant legal obligations
10. understand the principles of money management

11. understand the use of business management outcomes measures to assess and modify practice policies

12. understand the concepts involved with increasing productivity while maintaining quality of care, including office ergonomics and goal setting

EVALUATION CRITERIA / METHODS

Sophomore Year
1. Anesthesia / Pain Control Written Examination
2. Computer Utilization Examination

Junior Year
1. Periodontic Clinic Examination
2. Practice Planning Written Examination
3. Community Dentistry Written Examination
4. Patient and Cultural Sensitivity Written Examination

Senior Year
1. Periodontic Clinic Examination
2. Business of Practice Written Examination
3. Ethics in Dentistry I Written Examination
4. Pediatric Dentistry Clinic Examination
5. Ethics in Dentistry II Written Examination

D. ETHICS AND PROFESSIONALISM

D1. understanding and applying ethical, legal, and regulatory concepts as they pertain to patient care and practice management.

DEFINITION

1. implement and monitor infection control and environmental safety programs according to current standards
2. understand and apply the provisions of the Utah Dental Practice Act
3. understand and apply the American Dental Association Code of Ethics and similar practice codes
4. understand and apply the principles of Ethical Conduct and Professional Behavior of Dental Students as published by the American Student Dental Association
5. apply the principles of jurisprudence to the practice of dentistry
6. understand the laws that are applicable to patient records and confidentiality
7. understand the legal and financial aspects of operating a dental practice
8. understand the principles of ethical reasoning
9. understand ethical marketing

EVALUATION CRITERIA / METHODS

*Freshman Year*

1. Periodontic Technique Examination

*Sophomore Year*

1. Periodontic Written Examination
2. Infection Control Written Examination
3. Infection Control Technique Examination
4. Oral Diagnosis Examination
5. Anesthesia / Pain Control Written Examination

*Junior Year*

1. Treatment Rendered / Records Audit Examination
2. Operative Dentistry Clinic (Silver Amalgam) Examination
3. Operative Dentistry Clinic (Composite Resin) Examination
4. Operative Dentistry Written Examination
5. Periodontic Clinic Examination
6. TMD and Orofacial Pain Written Examination
7. Practice Planning Written Examination
8. Patient Assessment and Diagnosis Clinic Examination
9. Dental Emergency Clinic Examination
10. Health Promotion and Disease Prevention Clinic Examination (Pediatric Dentistry)

Senior Year
1. Treatment Rendered / Records Audit Examination
2. Endodontic Clinic (Solo Case) Examination
3. Endodontic Written Examination
4. Operative Dentistry Clinic (Silver Amalgam) Examination
5. Operative Dentistry Clinic (Composite Resin) Examination
6. Periodontic Clinic Examination
7. Business of Practice Written Examination
8. Ethics in Dentistry I Written Examination
9. Oral Surgery Clinic Examination
10. Implantology II Written Examination
11. Complete Denture Clinic Examination
12. Partial Denture Clinic Examination
13. Patient Assessment and Diagnosis Clinic Examination
14. Health Promotion and Disease Prevention Clinic Examination (General Dentistry)
15. Health Promotion and Disease Prevention Clinic Examination (Periodontics)
16. Dental Emergency Clinic Examination
17. Pediatric Dentistry Clinic Examination
18. Ethics in Dentistry II Written Examination
D2. understanding the importance of life-long learning and self-assessment relative to professional development and the maintenance of competence.

DEFINITION

1. recognize the changing environment relative to dental materials and techniques through continued study of published dental literature, continuing education courses, and other sources of information

2. monitor and critically evaluate contemporary medical/dental scientific and technical information including that obtained through published articles as well as through continuing education programs and advertisements

3. appraise completed and existing treatments and use these outcomes of patient care to guide professional development

4. understand the Standards of Care for each clinical discipline

5. understand the differences in difficulty of treatment cases for all disciplines of dentistry and the relationship this has to the practice of general dentistry

6. practice within the scope of one’s competence (ability) and make appropriate referrals to professional colleagues

7. communicate effectively with appropriate health care providers regarding consultations or referrals

8. understand the importance of participation in professional organizations

EVALUATION CRITERIA / METHODS

Sophomore Year

1. Oral Diagnosis Examination

2. Endodontic Written Examination

3. Anesthesia / Pain Control Written Examination

Junior Year

1. Treatment Rendered / Records Audit Examination

2. Operative Dentistry Written Examination

3. Periodontic Clinic Examination

4. Evidence-Based Dentistry Written Examination

5. TMD and Orofacial Pain Written Examination
Senior Year
1. Treatment Rendered / Records Audit Examination
2. Periodontic Clinic Examination
3. Periodontic Written Examination
4. Ethics in Dentistry I Written Examination
5. Implantology II Written Examination
6. Ethics in Dentistry II Written Examination

E. CRITICAL THINKING AND INFORMATION TECHNOLOGY

**E1. using critical thinking and problem solving skills to guide clinical decision making during the comprehensive care of patients.**

**DEFINITION**

1. manage oral health care based on an application of scientific principles
2. solve case-based learning exercises in didactic and clinical learning situations
3. make judgments about the safety and efficacy of new diagnostic and treatment modalities and make appropriate decisions regarding the use of new procedures on patients
4. make judgments regarding the selection of appropriate materials and/or treatment modalities during the provision of care for dental patients

**EVALUATION CRITERIA / METHODS**

*Freshman Year*

1. CPR Written Examination
2. CPR Skill Demonstration Examination
3. Operative Dentistry Instrumentation Technique Examination

*Sophomore Year*

1. Periodontic Written Examination
2. Fixed Prosthodontic Written Examination
3. Endodontic Written Examination
4. Pediatric Dentistry / Orthodontic Technique Examination
5. Removable Prosthodontic (Partial Denture) Written Examination
6. Removable Prosthodontic (Partial Denture) Technique Examination
7. Oral Pathology Written Examination
8. Operative Dentistry Written Examination
9. Class I Composite Resin Technique Examination
10. Class II Silver Amalgam Technique Examination
11. Class II Composite Resin Technique Examination
12. Class III Composite Resin Technique Examination
13. Oral Diagnosis Examination
14. Anesthesia / Pain Control Written Examination
15. Microbiology Written Examination

Junior Year
1. Operative Dentistry Clinic (Silver Amalgam) Examination
2. Operative Dentistry Clinic (Composite Resin) Examination
3. Operative Dentistry Clinic (Cast Gold) Examination
4. Operative Dentistry Written Examination
5. Fixed Prosthodontic Written Examination
6. Periodontic Clinic Examination
7. Removable Prosthodontic Clinic Examination
8. Evidence-Based Dentistry Written Examination
9. CPR Written Examination
10. CPR Skill Demonstration Examination
11. TMD and Orofacial Pain Written Examination
12. Pediatric Dentistry Written Examination
13. Periodontic Case Presentation Clinic Examination
14. Radiographic Interpretation Clinic Examination
15. Patient Assessment and Diagnosis Clinic Examination
16. Dental Emergency Clinic Examination
17. Malocclusion and Space Management Written Examination
18. Medically Complex Patient Written Examination
19. Health Promotion and Disease Prevention Clinic Examination (Pediatric Dentistry)
20. Medical Emergency Written Examination

Senior Year
1. Endodontic Clinic (Solo Case) Examination
2. Anterior Endodontic Clinic Examination
3. Posterior Endodontic Clinic Examination
4. Pharmacology Written Examination
5. Operative Dentistry Clinic (Silver Amalgam) Examination
6. Operative Dentistry Clinic (Composite Resin) Examination
7. Pediatric Dentistry Written Examination
8. Periodontic Clinic Examination
9. Oral Pathology Examination
10. Oral and Maxillofacial Surgery Written Examination
11. Oral Surgery Clinic Examination
12. Complete Denture Clinic Examination
13. Partial Denture Clinic Examination
14. Patient Assessment and Diagnosis Clinic Examination
15. Health Promotion and Disease Prevention Clinic Examination (General Dentistry)
16. Health Promotion and Disease Prevention Clinic Examination (Periodontics)
17. Dental Emergency Written Examination
18. Dental Emergency Clinic Examination
19. Malocclusion and Space Management Written Examination
20. Malocclusion and Space Management Clinical Examination
21. Pediatric Dentistry Clinical Examination
22. Ethics in Dentistry I Written Examination
23. Special Needs Patient Clinic Examination

**E2. understanding critical assessment and scientific principles as they relate to the selection of appropriate biomaterials used in dental therapy.**

**DEFINITION**

1. manage oral health care based on an application of scientific principles
2. understand the physical and mechanical properties of dental materials and the limitations they impose on their use in dental treatment
3. select appropriate biomaterials to meet case specific esthetic, biologic, and mechanical requirements

**EVALUATION CRITERIA / METHODS**

*Freshman Year*

1. Occlusion Technique Examination
2. Dental Materials Written Examination
3. Operative Dentistry Instrumentation Technique Examination

*Sophomore Year*

1. Fixed Prosthodontic Written Examination
2. Fixed Prosthodontic Technique Examination
3. Infection Control Written Examination
4. Infection Control Technique Examination
5. Endodontic Written Examination
6. Removable Prosthodontic (Complete Denture) Written Examination
7. Removable Prosthodontic (Partial Denture) Written Examination
8. Operative Dentistry Written Examination
9. Class I Composite Resin Technique Examination
10. Class II Silver Amalgam Technique Examination
11. Class II Composite Resin Technique Examination
12. Class III Composite Resin Technique Examination
13. Oral Diagnosis Examination
14. Anesthesia / Pain Control Written Examination

Junior Year
1. Operative Dentistry Clinic (Silver Amalgam) Examination
2. Operative Dentistry Clinic (Composite Resin) Examination
3. Operative Dentistry Clinic (Cast Gold) Examination
4. Operative Dentistry Written Examination
5. Fixed Prosthodontic Written Examinations
6. Periodontic Clinic Examination
7. Removable Prosthodontic Clinic Examination
8. Evidence-Based Dentistry Written Examination
9. Fixed Prosthodontic Clinic Examination: Fixed Partial Denture
10. Pediatric Dentistry Written Examination
11. Health Promotion and Disease Prevention Clinic Examination (Pediatric Dentistry)

Senior Year
1. Operative Dentistry Clinic (Silver Amalgam) Examination
2. Operative Dentistry Clinic (Composite Resin) Examination
3. Pediatric Dentistry Written Examination
4. Periodontic Clinic Examination
5. Periodontic Written Examination
6. Fixed Prosthodontic Laboratory All Ceramic Examination
7. Fixed Prosthodontic Clinic (PFM) Examination
8. Fixed Prosthodontic Clinic (FGC) Examination
9. Fixed Prosthodontic Clinic (All Ceramic) Examination
10. Complete Denture Clinic Examination
11. Partial Denture Clinic Examination
12. Health Promotion and Disease Prevention Clinic Examination (General Dentistry)
13. Health Promotion and Disease Prevention Clinic Examination (Periodontics)

E3. using information technology resources in contemporary dental practice.

DEFINITION

1. use information technology and information management systems for patient care, practice management, and professional development
2. demonstrate the application of basic information technology skills

EVALUATION CRITERIA / METHODS

Sophomore Year
1. Computer Utilization Examination

F. CLINICAL SCIENCES

F1. performing patient examination, assessment, and diagnosis procedures.

DEFINITION

1. establish rapport and identify the patient’s general needs and expectations
2. identify the chief complaint or reason for visit
3. obtain and interpret a thorough medical history, social (behavioral) history, dental history, and review of systems
4. conduct an appropriate clinical (head and neck as well as intraoral) and radiographic examination and distinguish oral pathological hard and soft tissue abnormalities
5. perform an assessment of the risk of radiation exposure and the diagnostic benefits of radiographic procedures as well as the selection of appropriate radiographs required for a diagnosis
6. order and interpret appropriate clinical laboratory and other diagnostic aids and tests
7. integrate and interpret the findings from the histories, clinical examination, radiographic examination, and other aids to identify the etiology and pathogenesis of each disorder
8. identify the problems and conditions requiring treatment
9. recognize and understand the pathologic physiology of systemic disease and its influence on oral health and treatment
10. assess the patient's risk for oral cancer and provide appropriate advise for risk reduction
11. institute any appropriate medical consultations or referrals
12. institute any appropriate dental consultations or referrals

EVALUATION CRITERIA / METHODS

Freshman Year
1. Periodontic Technique Examination
2. Occlusion Written Examination
3. CPR Written Examination
4. CPR Skill Demonstration Examination

Sophomore Year
1. Periodontic Written Examination
2. Fixed Prosthodontic Written Examination
3. Endodontic Written Examination
4. Removable Prosthodontic (Complete Denture) Written Examination
5. Removable Prosthodontic (Partial Denture) Written Examination
6. Oral Pathology Written Examination
7. Operative Dentistry Written Examination
8. Class I Composite Resin Technique Examination
9. Class II Silver Amalgam Technique Examination
10. Class II Composite Resin Technique Examination
11. Class III Composite Resin Technique Examination
12. Oral Diagnosis Examination
13. Anesthesia / Pain Control Written Examination
Junior Year

1. Treatment Rendered / Records Audit Examination
2. Operative Dentistry Clinic (Silver Amalgam) Examination
3. Operative Dentistry Clinic (Composite Resin) Examination
4. Operative Dentistry Written Examination
5. Fixed Prosthodontic Written Examination
6. Periodontic Clinic Examination
7. CPR Written Examination
8. CPR Skill Demonstration Examination
9. TMD and Orofacial Pain Written Examination
10. Pediatric Dentistry Written Examination
11. Periodontic Case Presentation Clinic Examination
12. Radiographic Interpretation Clinic Examination
13. Patient Assessment and Diagnosis Clinic Examination
14. Dental Emergency Clinic Examination
15. Malocclusion and Space Management Written Examination
16. Medically Complex Patient Written Examination
17. Health Promotion and Disease Prevention Clinic Examination (Pediatric Dentistry)
18. Medical Emergency Written Examination

Senior Year

1. Treatment Rendered / Records Audit Examination
2. Endodontic Clinic (Solo Case) Examination
3. Endodontic Written Examination
4. Operative Dentistry Clinic (Silver Amalgam) Examination
5. Operative Dentistry Clinic (Composite Resin) Examination
6. Pediatric Dentistry Written Examination
7. Periodontic Clinic Examination
8. Periodontic Written Examination
9. Implantology I Written Examination
10. Oral Pathology Examination
11. Oral and Maxillofacial Surgery Written Examination
12. Oral Surgery Clinic Examination
13. Complete Denture Clinic Examination
14. Partial Denture Clinic Examination
15. Patient Assessment and Diagnosis Clinic Examination
16. Health Promotion and Disease Prevention Clinic Examination (General Dentistry)
17. Health Promotion and Disease Prevention Clinic Examination (Periodontics)
18. Dental Emergency Written Examination
19. Dental Emergency Clinic Examination
20. Malocclusion and Space Management Written Examination
21. Malocclusion and Space Management Clinical Examination
22. Special Needs Patient Clinic Examination

**F2. developing a comprehensive plan of treatment.**

**DEFINITION**

1. integrate multiple disciplines in the development of an appropriate, comprehensive, properly sequenced, individualized treatment plan based upon the evaluation of all diagnostic data and establish an overall prognosis

2. develop treatment alternatives based on clinical and supporting data

3. modify treatment plans in an appropriate manner if indicated by assessment of the data of special needs patients such as those with medically, mentally, or physically compromised conditions

4. discuss the findings, diagnosis, treatment options, and prognoses with the patient and educate them so they can participate in the management of their own care

5. develop and implement a sequenced treatment plan that incorporates the patient’s goals, values, and concerns
6. present patients with their responsibilities regarding time requirements, sequence of treatment, estimated fees, and payment responsibilities

7. obtain informed consent and the patient's written acceptance of the treatment plan

8. initiate appropriate medical consultation or referral

9. initiate appropriate dental consultation or referral

EVALUATION CRITERIA / METHODS

Sophomore Year

1. Periodontic Written Examination

2. Endodontic Written Examination

3. Removable Prosthodontic (Partial Denture) Written Examination

4. Oral Diagnosis Examination

5. Anesthesia / Pain Control Written Examination

Junior Year

1. Treatment Rendered / Records Audit Examination

2. Operative Dentistry Clinic (Silver Amalgam) Examination

3. Operative Dentistry Clinic (Composite Resin) Examination

4. Operative Dentistry Written Examination

5. Periodontic Clinic Examination

6. TMD and Orofacial Pain Written Examination

7. Periodontic Case Presentation Clinic Examination

8. Patient Assessment and Diagnosis Clinic Examination

9. Medically Complex Patient Written Examination

Senior Year

1. Treatment Rendered / Records Audit Examination

2. Operative Dentistry Clinic (Silver Amalgam) Examination

3. Operative Dentistry Clinic (Composite Resin) Examination
4. Pediatric Dentistry Written Examination
5. Periodontic Clinic Examination
6. Periodontic Written Examination
7. Oral and Maxillofacial Surgery Written Examination
8. Complete Denture Clinic Examination
9. Partial Denture Clinic Examination
10. Patient Assessment and Diagnosis Clinic Examination
11. Ethics in Dentistry I Written Examination
12. Special Needs Patient Clinic Examination

**F3. understanding the principles of health promotion and disease prevention.**

**DEFINITION**

1. understand the importance of improving the oral health of individuals, families, and groups in the community through diagnosis, treatment, and education

2. recognize predisposing and etiologic factors that require intervention to prevent disease

3. recognize and understand the pathologic physiology of systemic disease and its influence on oral health and treatment

4. provide patient education regarding the etiology and control of oral diseases to maximize oral health

5. provide dietary counseling and nutritional education

6. understand and utilize behavioral science principles to motivate patients to assume appropriate responsibility for their oral health care

7. develop individualized preventive plans for patients

8. manage preventive oral health procedures including a recall system

9. perform therapies such as prophylaxes, fluorides, or sealants to eliminate local etiologic factors to control caries, periodontal disease, and other oral diseases

10. apply principles of personal infection control that are compatible with current practice including barrier protection, appropriate immunizations, hazard control, and the disposal of hazardous waste

11. utilize appropriate sterilization and disinfection procedures to prevent the transmission of disease

12. apply the principles of radiation biology and physics in a manner that is compatible with current radiation safety procedures
EVALUATION CRITERIA / METHODS

*Freshman Year*
1. Periodontic Technique Examination
2. Occlusion Written Examination

*Sophomore Year*
1. Periodontic Written Examination
2. Infection Control Written Examination
3. Infection Control Technique Examination
4. Endodontic Written Examination
5. Removable Prosthodontic (Partial Denture) Written Examination
6. Oral Diagnosis Examination
7. Anesthesia / Pain Control Written Examination

*Junior Year*
1. Operative Dentistry Clinic (Silver Amalgam) Examination
2. Operative Dentistry Clinic (Composite Resin) Examination
3. Operative Dentistry Clinic (Cast Gold) Examination
4. Operative Dentistry Written Examination
5. Periodontic Clinic Examination
6. TMD and Orofacial Pain Written Examination
7. Community Dentistry Written Examination
8. Periodontic Case Presentation Clinic Examination
9. Patient Assessment and Diagnosis Clinic Examination
10. Medically Complex Patient Written Examination
11. Health Promotion and Disease Prevention Clinic Examination (Pediatric Dentistry)
Senior Year

1. Operative Dentistry Clinic (Silver Amalgam) Examination
2. Operative Dentistry Clinic (Composite Resin) Examination
3. Periodontic Clinic Examination
4. Periodontic Written Examination
5. Patient Assessment and Diagnosis Clinic Examination
6. Health Promotion and Disease Prevention Clinic Examination (General Dentistry)
7. Health Promotion and Disease Prevention Clinic Examination (Periodontics)

F4. understanding and obtaining informed consent.

DEFINITION

1. provide optimal and empathetic care for all patients and do so in a manner that respects patient autonomy
2. understand the appropriate codes, rules, laws, and ethical principles as they relate to the practice of dentistry
3. apply the appropriate codes, rules, laws, and ethical principles to the practice of dentistry
4. understand the importance of the role of ethics in the practice of dentistry
5. understand and recognize the documentation required to verify the obtaining of informed consent

EVALUATION CRITERIA / METHODS

Sophomore Year

1. Infection Control Written Examination
2. Oral Diagnosis Examination
3. Anesthesia / Pain Control Written Examination

Junior Year

1. Treatment Rendered / Records Audit Examination
2. Operative Dentistry Clinic (Silver Amalgam) Examination
3. Operative Dentistry Clinic (Composite Resin) Examination
4. Periodontic Clinic Examination
5. Pediatric Dentistry Written Examination
6. Periodontic Case Presentation Clinic Examination
7. Dental Emergency Clinic Examination

Senior Year
1. Treatment Rendered / Records Audit Examination
2. Endodontic Clinic (Solo Case) Examination
3. Operative Dentistry Clinic (Silver Amalgam) Examination
4. Operative Dentistry Clinic (Composite Resin) Examination
5. Periodontic Clinic Examination
6. Ethics in Dentistry I Written Examination
7. Oral Surgery Clinic Examination
8. Endodontic Written Examination
9. Dental Emergency Clinic Examination
10. Pediatric Dentistry Clinic Examination
11. Ethics in Dentistry II Written Examination
12. Special Needs Patient Clinic Examination

F5. managing pain and anxiety through appropriate pharmacologic and nonpharmacologic methods.

DEFINITION
1. develop confidence, trust, and respect in the dentist-patient relationship
2. develop an understanding of human behavior and the psychological aspects of pain and apprehension; anatomy and neuroanatomy related to pain; and the physiologic and pharmacologic aspects of pain and pain control
3. perform a physical evaluation of the patient with regard to pain
4. understand the various classes of pharmacologic agents used to manage conditions of pain and anxiety
5. understand the behavioral science principles involved in the management of pain and anxiety
6. demonstrate techniques of pre-operative, operative, and post-operative pain control including the administration of local anesthetics, inhalation analgesics, and prescription medications as well as using nonpharmacologic techniques

7. prevent, recognize, and manage complications related to the use of pharmacologic agents for the management of pain and anxiety, including local anesthetics, inhalation analgesics and prescription medications

8. utilize appropriate literature or information sources in assessing medications taken by the patient that may interact with those proposed for the management of pain and anxiety

EVALUATION CRITERIA / METHODS

Freshman Year
1. Anatomic Sciences Written Examination
2. Physiology Written Examination

Sophomore Year
1. Endodontic Written Examination
2. Anesthesia / Pain Control Written Examination

Junior Year
1. Pharmacology Written Examination
2. Operative Dentistry Clinic (Silver Amalgam) Examination
3. Operative Dentistry Clinic (Composite Resin) Examination
4. Operative Dentistry Written Examination
5. Periodontic Clinic Examination
6. TMD and Orofacial Pain Written Examination
7. Pediatric Dentistry Written Examination
8. Dental Emergency Clinic Examination

Senior Year
1. Endodontic Clinic (Solo Case) Examination
2. Endodontic Written Examination
3. Pharmacology Written Examination
4. Operative Dentistry Clinic (Silver Amalgam) Examination
5. Operative Dentistry Clinic (Composite Resin) Examination
6. Pediatric Dentistry Written Examination
7. Periodontic Clinic Examination
8. Oral and Maxillofacial Surgery Written Examination
9. Oral Surgery Clinic Examination
10. Dental Emergency Clinic Examination
11. Pediatric Dentistry Clinic Examination

**F6. selecting, administrating, and prescribing appropriate pharmacologic agents to manage conditions that influence dental treatment.**

**DEFINITION**

1. understand the various classes of pharmacologic agents used to manage conditions that influence dental treatment
2. perform a physical evaluation of the patient to determine the specific nature of the existing problem
3. demonstrate an ability to select appropriate pharmacologic agents to treat specific conditions applicable to dentistry
4. demonstrate prescription writing ability and communication skills with pharmacologically related allied health personnel
5. prevent, recognize, and manage complications related to the use of pharmacologic agents used in dentistry
6. utilize appropriate literature or information sources in assessing medications taken by the patient that may interact with those proposed for treatment

**EVALUATION CRITERIA / METHODS**

**Sophomore Year**

1. Periodontic Written Examination
2. Anesthesia / Pain Control Written Examination
Junior Year

1. Pharmacology Written Examination
2. Operative Dentistry Clinic (Silver Amalgam) Examination
3. Operative Dentistry Clinic (Composite Resin) Examination
4. Operative Dentistry Written Examination
5. Periodontic Clinic Examination
6. TMD and Orofacial Pain Written Examination
7. Pediatric Dentistry Written Examination
8. Patient Assessment and Diagnosis Clinic Examination
9. Dental Emergency Clinic Examination
10. Medically Complex Patient Written Examination

Senior Year

1. Endodontic Clinic (Solo Case) Examination
2. Endodontic Written Examination
3. Pharmacology Written Examination
4. Operative Dentistry Clinic (Silver Amalgam) Examination
5. Operative Dentistry Clinic (Composite Resin) Examination
6. Pediatric Dentistry Written Examination
7. Periodontic Clinic Examination
8. Periodontic Written Examination
9. Oral and Maxillofacial Surgery Written Examination
10. Oral Surgery Clinic Examination
11. Patient Assessment and Diagnosis Clinic Examination
12. Dental Emergency Clinic Examination
13. Pediatric Dentistry Clinic Examination
F7. **restoring single defective teeth with appropriate materials and techniques to establish proper form, function, and esthetics.**

**DEFINITION**

1. restore teeth with amalgam utilizing appropriate measures to ensure adequate restoration of form and function as well as the protection of the pulp and periodontal tissues

2. restore teeth with resin composite utilizing appropriate measures to ensure adequate restoration of form, function, and esthetics as well as the protection of the pulp and periodontal tissues

3. restore teeth with intracoronal cast gold utilizing appropriate measures to ensure adequate restoration of form and function as well as the protection of the pulp and periodontal tissues

4. prepare and fabricate foundation restorations

5. provide single-unit metal or porcelain-fused-to-metal restorations in both the anterior and posterior regions of the mouth to restore form, function, and esthetics and to do so while utilizing appropriate measures to ensure adequate protection of the pulp and periodontal tissues

6. fabricate and place provisional restorations utilizing procedures that ensure the protection of the pulp and periodontal tissues

7. apply the principles and concepts of esthetics to the restoration of defective teeth

8. perform all phases of treatment in the indirect restoration of teeth, including preparation of the teeth; pulp protection; gingival retraction; impression making; trimming of dies; mounting of casts; fitting and placement of the completed restoration; and post-placement maintenance

9. prepare a prescription for a dental laboratory

10. assess laboratory procedures completed by laboratory technicians

**EVALUATION CRITERIA / METHODS**

**Freshman Year**

1. Dental Materials Technique Examination

2. Operative Dentistry Instrumentation Technique Examination

**Sophomore Year**

1. Fixed Prosthodontic Written Examination

2. Fixed Prosthodontic Technique Examination

3. Endodontic Written Examination

4. Pediatric Dentistry / Orthodontic Technique Examination
5. Operative Dentistry Written Examination
6. Class I Composite Resin Technique Examination
7. Class II Silver Amalgam Technique Examination
8. Class II Composite Resin Technique Examination
9. Class III Composite Resin Technique Examination

**Junior Year**
1. Operative Dentistry Clinic (Silver Amalgam) Examination
2. Operative Dentistry Clinic (Composite Resin) Examination
3. Operative Dentistry Clinic (Cast Gold) Examination
4. Operative Dentistry Written Examination
5. Fixed Prosthodontic Written Examination
6. Fixed Prosthodontic Clinic Examination: Fixed Partial Denture
7. Pediatric Dentistry Written Examination

**Senior Year**
1. Operative Dentistry Clinic (Silver Amalgam) Examination
2. Operative Dentistry Clinic (Composite Resin) Examination
3. Pediatric Dentistry Written Examination
4. Fixed Prosthodontic Laboratory All Ceramic Examination
5. Fixed Prosthodontic Clinic (PFM) Examination
6. Fixed Prosthodontic Clinic (FGC) Examination
7. Fixed Prosthodontic Clinic (All Ceramic) Examination
8. Pediatric Dentistry Clinic Examination
**F8. restoring partial or complete edentulism with fixed or removable prosthodontics in the uncomplicated patient and in managing the care of the complicated edentulous patient.**

**DEFINITION**

1. provide anterior and posterior fixed partial dentures to replace one or more missing teeth to restore normal form, function, and esthetics
2. provide diagnosis, treatment planning, mouth preparation, delivery, and maintenance of removable partial dentures
3. provide diagnosis, treatment planning, mouth preparation, delivery, and maintenance of complete dentures
4. perform tissue conditioning procedures
5. apply the principles and concepts of esthetics toward the replacement of missing teeth
6. fabricate, adjust, and place provisional restorations designed to preserve the health of the teeth and the periodontium
7. perform relining of complete dentures and/or partial dentures
8. communicate effectively with laboratory technicians, including providing laboratory prescription with directions regarding the selection of materials, design, shade, mold description, and other pertinent data
9. assess laboratory procedures completed by laboratory technicians
10. manage, through consultation or referral, the treatment of partial or total edentulism in the complicated edentulous patient

**EVALUATION CRITERIA / METHODS**

**Sophomore Year**
1. Fixed Prosthodontic Written Examination
2. Fixed Prosthodontic Technique Examination
3. Removable Prosthodontic (Complete Denture) Written Examination
4. Removable Prosthodontic (Complete Denture) Technique Examination
5. Removable Prosthodontic (Partial Denture) Written Examination
6. Removable Prosthodontic (Partial Denture) Technique Examination

**Junior Year**
1. Removable Prosthodontic Clinic Examination
2. Fixed Prosthodontic Written Examination
Senior Year

1. Implantology I Written Examination
2. Implantology II Written Examination
3. Complete Denture Clinic Examination
4. Partial Denture Clinic Examination
5. Fixed Prosthodontic (PFM & FGC) Clinic Examinations

**F9. managing the restoration of partial or complete edentulism using contemporary implant procedures.**

**DEFINITION**

1. understand the indications, contraindications, advantages, and disadvantages of dental implants
2. include dental implants in the treatment plan, when appropriate, and explain the treatment options to the patient
3. evaluate existing implants using clinical and radiographic means
4. maintain existing implants in such a manner that includes prevention of peri-implant disease, proper instrumentation of implant surfaces, correct assembly of implant components, and appropriate referral of implant and implant-prosthesis problems

**EVALUATION CRITERIA / METHODS**

Senior year

1. Periodontic Written Examination
2. Implantology I Written Examination
3. Implantology II Written Examination

**F10. performing uncomplicated periodontal therapies and in managing the care of patients with complicated or advanced periodontal problems.**

**DEFINITION**

1. evaluate the periodontium, arrive at a diagnosis and prognosis, and formulate a plan of treatment
2. perform a dental prophylaxis, scaling, and root planing
3. manage patients requiring modification or oral tissues to optimize the restoration of form, function, and esthetics
4. evaluate the results of periodontal treatment and establish, as well as monitor, an appropriate and comprehensive maintenance program following the active phase of periodontal therapy

5. recognize the need for and be able to refer the treatment of complicated periodontal problems

**EVALUATION CRITERIA / METHODS**

*Freshman Year*

1. Periodontic Technique Examination

*Sophomore Year*

1. Periodontic Written Examination

*Junior Year*

1. Periodontic Clinic Examination

2. Periodontic Case Presentation Clinic Examination

*Senior Year*

1. Periodontic Clinic Examination

2. Periodontic Written Examination

3. Health Promotion and Disease Prevention Clinic Examination (Periodontics)

**F11. performing uncomplicated endodontic procedures and in managing the care of patients with complicated pulpal and periradicular disorders.**

**DEFINITION**

1. evaluate the pulp and periradicular tissues, arrive at a diagnosis and prognosis, and formulate a plan of treatment

2. prevent and manage pulpal disorders through indirect pulp therapy, direct pulp therapy, and pulpotomy procedures

3. perform uncomplicated endodontic therapy on single rooted and multirooted teeth, including molars

4. manage pulpal and periradicular disorders of traumatic origin, including apexification procedures

5. recognize the need for and be able to refer the treatment of complicated single rooted and multi-rooted endodontic cases
EVALUATION CRITERIA / METHODS

Sophomore Year
1. Endodontic Written Examination
2. Endodontic Solo Technique Examination

Junior Year
1. Endodontic Written Examination
2. Pediatric Dentistry Written Examination

Senior Year
1. Endodontic Written Examination
2. Anterior Endodontic Clinic Examination
3. Posterior Endodontic Clinic Examination
4. Endodontic Clinic (Solo Case) Examination
5. Pediatric Dentistry Clinic Examination

F12. recognizing and managing orofacial lesions.

DEFINITION
1. recognize, prescribe, and render appropriate treatment for uncomplicated oral pathologic abnormalities of hard and soft tissue
2. manage, through consultation or referral, complicated oral pathological abnormalities of hard and soft tissue

EVALUATION CRITERIA / METHODS

Freshman Year
1. Dental Materials Technique Examination

Sophomore Year
1. Removable Prosthodontic (Complete Denture) Written Examination
2. Oral Pathology Written Examination
**Junior Year**

1. Operative Dentistry Clinic (Silver Amalgam) Examination
2. Operative Dentistry Clinic (Composite Resin) Examination
3. Operative Dentistry Written Examination
4. TMD and Orofacial Pain Written Examination
5. Pediatric Dentistry Written Examination
6. Radiographic Interpretation Clinic Examination
7. Patient Assessment and Diagnosis Clinic Examination
8. Dental Emergency Clinic Examination

**Senior Year**

1. Operative Dentistry Clinic (Silver Amalgam) Examination
2. Operative Dentistry Clinic (Composite Resin) Examination
3. Pediatric Dentistry Written Examination
4. Oral Pathology Examination
5. Oral and Maxillofacial Surgery Written Examination
6. Patient Assessment and Diagnosis Clinic Examination
7. Dental Emergency Written Examination
8. Dental Emergency Clinic Examination

**F13. performing uncomplicated oral surgical procedures and in managing the care of patients with complicated oral surgical problems.**

**DEFINITION**

1. perform uncomplicated extractions of single rooted and multi-rooted teeth
2. remove uncomplicated fractured or residual root tips
3. perform uncomplicated preprosthetic surgery
4. perform uncomplicated soft tissue biopsies
5. treat uncomplicated infections of dental origin
6. manage, through consultation or referral, complicated oral surgical problems such as hard tissue biopsies; surgical removal of impacted teeth; complicated preprosthetic surgery; complicated infections of
dental origin; treatment of cysts, tumors, and fractures of the maxilla or mandible; and complicated modifications of oral tissues to optimize the restoration of form, function, and esthetics

**EVALUATION CRITERIA / METHODS**

**Senior Year**

1. Oral and Maxillofacial Surgery Written Examination
2. Pediatric Dentistry Written Examination
3. Oral Surgery Clinic Examination

**F14. preventing, recognizing, treating, and managing dental emergencies including pain, hemorrhage, trauma, and infection of the orofacial complex.**

**DEFINITION**

1. understand and manage dental emergencies of pulpal and periodontal origin
2. understand, control, manage, or promptly refer dental emergencies of traumatic origin
3. understand and manage dental emergencies resulting from treatment failure

**EVALUATION CRITERIA / METHODS**

**Sophomore Year**

1. Endodontic Written Examination
2. Periodontic Written Examination

**Junior Year**

1. Endodontic Written Examination
2. Pharmacology Written Examination
3. Operative Dentistry Written Examination
4. Periodontic Clinic Examination
5. TMD and Orofacial Pain Written Examination
6. Pediatric Dentistry Written Examination
7. Dental Emergency Clinic Examination
Senior Year

1. Endodontic Written Examination
2. Pediatric Dentistry Written Examination
3. Periodontic Clinic Examination
4. Oral and Maxillofacial Surgery Written Examination
5. Oral Surgery Clinic Examination
6. Dental Emergency Written Examination
7. Dental Emergency Clinic Examination

**F15. managing patients with acute and chronic occlusal and temporomandibular disorders.**

**DEFINITION**

1. diagnose malocclusion by utilizing appropriately mounted diagnostic casts and other diagnostic aids
2. perform occlusal adjustments of the natural and restored dentitions based on knowledge of indications, contraindications, and techniques for occlusal adjustment
3. fabricate and use occlusal bite plane splints to treat parafunctions, trauma from occlusion, and temporomandibular disorders
4. refer complicated cases of acute and chronic occlusal and temporomandibular disorders to appropriate health care providers

**EVALUATION CRITERIA / METHODS**

Freshman Year

1. Occlusion Technique Examination

Junior Year

1. TMD and Orofacial Pain Written Examination

**F16. performing minor tooth movement and space maintenance and in managing the care of patients with complicated or advanced orthodontic problems.**

**DEFINITION**

1. recognize interferences in normal growth and development
2. diagnose malocclusion by utilizing diagnostic casts and other diagnostic aids
3. understand the indications, contraindications, advantages and disadvantages of space maintainers
4. fabricate uncomplicated orthodontic appliances and space maintainers
5. participate in a treatment case involving active appliance therapy
6. understand the difference in difficulty between various orthodontic treatment cases and develop an understanding of which should be treated by the general practitioner and which should be referred
7. make acceptable referrals, when indicated

EVALUATION CRITERIA / METHODS

Sophomore Year
1. Pediatric Dentistry / Orthodontic Technique Examination

Junior Year
1. Pediatric Dentistry Written Examination
2. Malocclusion and Space Management Written Examination

Senior Year
1. Pediatric Dentistry Written Examination
2. Malocclusion and Space Management Written Examination
3. Malocclusion and Space Management Clinical Examination

F17. appraising completed and existing treatments and in using these outcomes of patient care to guide professional development.

DEFINITION
1. monitor therapeutic outcomes and use this to re-evaluate and/or modify the initial diagnosis or therapy
2. understand the importance and process of conducting both records and treatment audits
3. understand the Standards of Care for each clinic discipline
4. determine the causes of noted treatment deficiencies
5. document noted deficiencies and be able to prescribe appropriate corrective measures
EVALUATION CRITERIA / METHODS

Sophomore Year
1. Oral Diagnosis Examination

Junior Year
1. Treatment Rendered / Records Audit Examination
2. Operative Dentistry Clinic (Silver Amalgam) Examination
3. Operative Dentistry Clinic (Composite Resin) Examination

Senior Year
1. Treatment Rendered / Records Audit Examination
2. Operative Dentistry Clinic (Silver Amalgam) Examination
3. Operative Dentistry Clinic (Composite Resin) Examination

F18. preventing, recognizing, managing and treating, for the short-term, acute medical emergencies in the dental environment including the provision of life support measures.

DEFINITION
1. anticipate, diagnose, and provide initial treatment as well as follow-up management for medical emergencies such as unconsciousness, allergic reaction, seizure, drug overdose, and cardiac arrest that occur during dental treatment
2. maintain certification in cardio-pulmonary resuscitation and be able to provide appropriate life support measures

EVALUATION CRITERIA / METHODS

Freshman Year
1. CPR Written Examination
2. CPR Skill Demonstration Examination

Sophomore Year
1. Anesthesia / Pain Control Written Examination
Junior Year
1. Operative Dentistry Clinic (Silver Amalgam) Examination
2. Operative Dentistry Clinic (Composite Resin) Examination
3. CPR Written Examination
4. CPR Skill Demonstration Examination
5. Medical Emergency Written Examination

Senior Year
1. Operative Dentistry Clinic (Silver Amalgam) Examination
2. Operative Dentistry Clinic (Composite Resin) Examination
3. Oral and Maxillofacial Surgery Written Examination
4. Pediatric Dentistry Written Examination

**F19. assessing the treatment requirements of patients with special needs.**

**DEFINITION**
1. recognize those situations where medical, physical, psychological or social situations make it necessary to modify dental routines in order to provide dental treatment
2. apply appropriate interpersonal and communication skills to patients with special needs
3. assess and prescribe dental treatment that is compatible with special needs

**EVALUATION CRITERIA / METHODS**

**Junior Year**
1. Patient and Cultural Sensitivity Written Examination
2. Operative Dentistry Written Examination
3. Medically Complex Patient Written Examination
4. Periodontic Case Presentation Clinic Examination
5. Patient Assessment and Diagnosis Clinic Examination

**Senior Year**
1. Oral Surgery Clinic Examination
2. Patient Assessment and Diagnosis Clinic Examination
3. Special Needs Patient Clinic Examination

**F20. performing and managing requisite technical and laboratory procedures attendant to the provision of dental restorations.**

**DEFINITION**

1. perform laboratory procedures most conveniently done in a dental office such as impression trays, record bases, simple repairs, polishing prostheses, construction of uncomplicated indirect restorations, etc.

2. prepare a work authorization that clearly indicates the design of a restoration or prosthesis, the materials to be used in its fabrication, appropriate shade and mold descriptions, and other pertinent data

3. assess those procedures accomplished by laboratory technicians

**EVALUATION CRITERIA / METHODS**

**Sophomore Year**

1. Fixed Prosthodontic Written Examination
2. Fixed Prosthodontic Technique Examination
3. Removable Prosthodontic (Complete Denture) Written Examination
4. Removable Prosthodontic (Complete Denture) Technique Examination
5. Removable Prosthodontic (Partial Denture) Written Examination
6. Removable Prosthodontic (Partial Denture) Technique Examination
7. Operative Dentistry Written Examination

**Junior Year**

1. Fixed Prosthodontic Written Examination
2. Removable Prosthodontic Clinic Examination

**Senior Year**

1. Implantology II Written Examination
2. Complete Denture Clinic Examination
3. Partial Denture Clinic Examination
These competencies will be conveyed to the students by several means. They will be published on the School of Dentistry website (under Student Section) which will be accessible through the University of Utah website of www.utah.edu. They will also be published in the bulletin of the University of Utah School of Dentistry and in the Clinic Manual. They will be distributed to the students on an annual basis as a part of a packet of academic policies and procedures. This document, which will be academic-year specific, also will inform the students of which competency examinations will be administered during that year as well as which competencies will be covered on each specific examination. Finally, each academic offering that is associated with a competency examination has a similar explanation of that test included within its syllabus.

The School of Dentistry will define competence as the possession of sufficient knowledge, skills, and values to identify a problem and act skillfully to reach a solution in a manner that is consistent with the activity of a dentist in an unsupervised practice environment. The School will identified 30 competencies that define this general private practice activity. The primary method of student evaluation designed to measure the attainment of these 30 competencies at the University of Utah School of Dentistry will be the use of specific competency examinations. Most of these exercises will be conducted as a part of a required course, however, several will be "stand alone" activities not associated with any academic offering. Examples of the latter include clinical examinations in operative dentistry, periodontics, and endodontics; the treatment rendered/record keeping examinations; and the sophomore computer utilization examination. Successful completion of these exercises must take place before advancement can occur, however, no academic grade will be issued for this achievement. From a data-tracking standpoint, only passes and failures will be recorded. The competency examinations that occur as a portion of an existing curricular offering must also be successfully completed before advancement can occur. These examinations, however, usually will play a role in course grade determination. It must be pointed out, though, that regardless of what the course grade is, the competency examination must be successfully completed before the student is allowed to advance. Because of examination weighting and the cumulative effects of several tests, it will be possible to pass a course (with a low grade) and yet fail the competency examination. When the Curriculum Committee reviews the academic performance of the students, both course grades and competency examination results will be considered. This information will be gathered by the Office of the Assist/Assoc Dean of Student Affairs shortly after the conclusion of each semester. Despite the fact that the student in the example above passed the course, the competency examination failure will preclude the Curriculum Committee from recommending to the Dean advancement to the next level.

The evaluation of competence will be an ongoing process that requires a variety of assessments. At the School of Dentistry, this process will occur over time and involve a number of constituencies. The fact that the evaluation of the competencies will occur over time indicates that the process is ongoing. That several academic units will be involved in the evaluation process for most competencies attests to the variety of assessments that will be made as does the fact that numerous examinations will be involved. The specific evaluation methods that measure the attainment of each competency will be grouped by academic year and are presented above. As mentioned previously, this information will be presented to each student on a year-specific basis at the time of registration for each academic year. The table that follows summarizes this information and quantifies the concept that the evaluation of competence at University of Utah School of Dentistry will be an ongoing process that involves a variety of measurements. As a point of reference, there will eventually be eight academic units or departments at the School.
<table>
<thead>
<tr>
<th>COMPETENCY EXAMINATION DATA Competency</th>
<th>Years Evaluated</th>
<th>Number of Examinations</th>
<th>Number of Disciplines</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1. Biomedical Sciences</td>
<td>Fr So Jr Sr</td>
<td>29</td>
<td>6</td>
</tr>
<tr>
<td>B1. Apply Behavioral Science</td>
<td>Fr So Jr Sr</td>
<td>21</td>
<td>6</td>
</tr>
<tr>
<td>C1. Evaluate Health Care Management</td>
<td>Jr Sr</td>
<td>4</td>
<td>1</td>
</tr>
<tr>
<td>C2. Practice Management</td>
<td>So Jr Sr</td>
<td>9</td>
<td>3</td>
</tr>
<tr>
<td>D1. Ethical &amp; Legal Concepts</td>
<td>Fr So Jr Sr</td>
<td>26</td>
<td>6</td>
</tr>
<tr>
<td>D2. Life Long Learning</td>
<td>So Jr Sr</td>
<td>14</td>
<td>6</td>
</tr>
<tr>
<td>E1. Critical Thinking &amp; Problem Solving</td>
<td>Fr So Jr Sr</td>
<td>47</td>
<td>8</td>
</tr>
<tr>
<td>E2. Selection of Materials</td>
<td>Fr So Jr Sr</td>
<td>36</td>
<td>6</td>
</tr>
<tr>
<td>E3. Information Technology</td>
<td>Fr So</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>F1. Patient Examination &amp; Diagnosis</td>
<td>Fr So Jr Sr</td>
<td>46</td>
<td>7</td>
</tr>
</tbody>
</table>

From the foregoing, it is apparent that the evaluation of competence at the University of Utah School of Dentistry will be an ongoing process with a wide variety of assessments being conducted by multiple constituencies to determine the acquisition and integration of knowledge, values and skills. Concurrently, an assessment of the processes and procedures which will be necessary for entry level practice will also be made. The competency examinations in the Biomedical Science domain primarily will measure the acquisition of knowledge. Those in the Behavioral Science, Practice Management, Ethics/Professionalism, and Critical Thinking/ Information Technology domains will measure the attainment of knowledge as well as assess the processes and procedures which will be necessary for entry level practice. Finally, the competency examinations in the Clinical Sciences domain primarily will measure the acquisition of knowledge and specific clinical skills.

The University of Utah School of Dentistry will use what has been described as a “lock-step” type of curriculum. All students in a given academic year will take all didactic and laboratory courses and associated examinations, including competency assessments, at the same time. The timing of the offering of these evaluations will be clearly presented in the syllabus of each appropriate course so all students will be aware of the scheduling for all of these events. All clinical courses will be conducted concurrently, however, the degree of participation in each at any given point in time may vary due to differences in patient treatment needs and the clinical progression of the students. The offering of clinical competency examinations will be essentially split between allowing the student to challenge when he/she believes...
he/she is ready or scheduling the assessment to occur as a block event for either a large segment of the class or the entire class. The time required to conduct a particular discipline’s assessment and the availability of resources to do so will be the primary determining factors that dictate which format will be used. Procedures such as non-complicated extractions, single canal endodontics, periodontic case presentations, oral diagnosis, and treatment rendered assessments, which typically do not involve large amounts of time, are examples of the “challenge when ready” format. Assessments of more complex treatments or those which require multiple evaluators to simulate licensure examination conditions, will usually be offered to the entire class at a time that is scheduled by the School. Because of the variance in clinical course participation mentioned above, these examinations will be scheduled to occur near the conclusion of the academic year to allow all students ample time in each discipline’s clinic to develop the requisite knowledge and skills to successfully challenge the competency. Examples of disciplines involved in this format include restorative dentistry, prosthodontics and periodontics.

The criterion for the determination of the successful achievement of competence in a particular area will be the passage of all competency examinations associated with its competency statement. The criterion for the determination of the successful achievement of all competencies associated with the educational program will be the passage of all competency examinations offered by the School. All such examinations offered during a given academic year must be passed before advancement is possible. Cumulatively, this will result in the successful completion of all competency examinations offered by the institution which would lead to the determination of the achievement of competence in the 30 areas outlined by the School. Institutional responsibility for the assurance that all competency examinations have been successfully completed will be shared between the Assist/Assoc Dean of Student Affairs and the Curriculum Committee. Competency examination performance data will be gathered from examination administrators by the Office of the Assist/Assoc Dean of Student Affairs as a part of the process that collects coursework grades. A competency examination reporting form will be developed for this purpose. One of the items on this form will ask the examination administrator to report the names of all students who have not successfully completed the competency test in question. Once reported to the Assist/Assoc Dean of Student Affairs, a notation will be made on a master tracking form. This information will then be presented to the Curriculum Committee for deliberations regarding advancement. Students who do not successfully challenge their competency examinations will be advised of such by the examination administrator. The consequences with respect to advancement will be conveyed to the Assist/Assoc Dean of Student Affairs and the Curriculum Committee. Once the student passes the competency examination that was failed initially, the examination administrator will inform the Assist/Assoc Dean of Student Affairs. The master tracking form will be amended accordingly and, if all other obligations have been met, the student will be allowed to advance.

Prior to graduation, the Office of the Assist/Assoc Dean Student Affairs will conduct a “sign out” process whereby prospective graduates must receive signatures from key personnel indicating that all academic, clinical, administrative, and financial responsibilities have been met. Among these will be the successful completion of all competency examinations and the signature of the Assist/Assoc Dean Student Affairs will be required as proof of that fact. This demonstrates that the University of Utah School of Dentistry will employ student evaluation methods that measure its defined competencies. It will do so with a process that uses a variety of assessments from a broad base of constituencies, it will be ongoing, and will be closely monitored by key administrative personnel for successful completion.
### Section V: Finance

## Budget

<table>
<thead>
<tr>
<th>Departmental Data</th>
<th>Current Budget—Prior to New Program Implementation</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Personnel Expense</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Salaries &amp; Wages</td>
<td>1,400,723</td>
<td>2,246,559</td>
<td>2,962,015</td>
<td>4,153,249</td>
<td>5,585,933</td>
<td>7,144,935</td>
</tr>
<tr>
<td>Benefits</td>
<td>462,239</td>
<td>741,364</td>
<td>977,465</td>
<td>1,370,572</td>
<td>1,843,358</td>
<td>2,357,829</td>
</tr>
<tr>
<td>Total Personnel Expense</td>
<td>1,862,961</td>
<td>2,987,923</td>
<td>3,939,480</td>
<td>5,523,821</td>
<td>7,429,291</td>
<td>9,502,764</td>
</tr>
<tr>
<td><strong>Non-personnel Expense</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Travel</td>
<td>25,000</td>
<td>45,000</td>
<td>65,000</td>
<td>100,000</td>
<td>145,000</td>
<td>185,000</td>
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<tr>
<td>Capital</td>
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<td>85,000</td>
<td>125,000</td>
<td>160,000</td>
<td>740,000</td>
<td>795,000</td>
</tr>
<tr>
<td>Library</td>
<td>-</td>
<td>30,000</td>
<td>30,000</td>
<td>30,000</td>
<td>30,000</td>
<td>30,000</td>
</tr>
<tr>
<td>Current Expense</td>
<td>441,924</td>
<td>883,448</td>
<td>1,366,523</td>
<td>2,402,043</td>
<td>3,314,588</td>
<td>4,028,380</td>
</tr>
<tr>
<td>Total Non-personnel Expense</td>
<td>551,924</td>
<td>1,043,448</td>
<td>1,606,523</td>
<td>2,692,043</td>
<td>3,929,588</td>
<td>4,503,820</td>
</tr>
<tr>
<td><strong>Total Expense (Personnel + Current)</strong></td>
<td>$2,414,885</td>
<td>$4,031,371</td>
<td>$5,546,003</td>
<td>$8,215,864</td>
<td>$11,658,879</td>
<td>$14,541,144</td>
</tr>
</tbody>
</table>

| Appropriated Fund | | | | | | |
| Other: Clinic Income | 2,090,466 | 2,144,180 | 2,199,506 | 2,632,116 | 3,253,297 | 3,949,499 |
| Special Legislative Appropriation | - | - | - | - | - | - |
| Grants and Contracts | 200,000 | 1,418,000 | 1,854,810 | 3,066,909 | 4,601,221 | 5,677,822 |
| Special Fees/Differential Tuition | - | 25,000 | 1,027,234 | 2,102,191 | 3,332,201 | 4,441,705 |
| **Total** | $2,546,455 | $4,099,158 | $5,593,528 | $8,313,194 | $11,698,697 | $14,541,004 |

| Difference | | | | | | |
| Revenue – Expense | $131,570 | $67,787 | $47,525 | $97,330 | $39,818 | $39,860 |

### Departmental Instructional Cost/Student Credit Hour

(as reported in institutional Cost Study for “current” and using the same Cost Study Definition for “projected”)

| | | | | | | |
| Departmental Instructional Cost/Student Credit Hour* | $ | $ | $ | $ | $ | $ |

* Projected Instructional Cost/Student Credit Hour data contained in this chart are to be used in the Third-Year Follow-Up Report and Cyclical Reviews required by R411.

## Funding Sources

The initial inaugural class will be 20 Utah resident students/year and will utilize existing state line item appropriation for dental education (no new state appropriation). In addition, student tuition and fees, clinic income and development start-up funds will be used to operate the education program.
Reallocation
No reallocation of funds is anticipated at this time.

Impact on Existing Budgets
No impact on current base budgets is anticipated at this time. The program will generate its own revenues to operate the program.

Section VI: Program Curriculum

All Program Courses
SCHEDULE OF COURSES (FRESHMAN YEAR)

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Semester</th>
<th>Clock</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Sem. Or Lect.</td>
<td>Lab.</td>
</tr>
<tr>
<td>Interpersonal Relationships / Communication</td>
<td>I</td>
<td>16</td>
<td>0</td>
</tr>
<tr>
<td>Preventive Dentistry</td>
<td>I</td>
<td>16</td>
<td>15</td>
</tr>
<tr>
<td>History of Dentistry</td>
<td>I</td>
<td>8</td>
<td>0</td>
</tr>
<tr>
<td>Dental Material Science Lecture</td>
<td>I</td>
<td>16</td>
<td>0</td>
</tr>
<tr>
<td>Dental Materials Science Laboratory</td>
<td>I</td>
<td>32</td>
<td>0</td>
</tr>
<tr>
<td>Dental Anatomy Lecture</td>
<td>I</td>
<td>16</td>
<td>0</td>
</tr>
<tr>
<td>Dental Anatomy Laboratory</td>
<td>I</td>
<td>112</td>
<td>0</td>
</tr>
<tr>
<td>Biochemistry Lecture</td>
<td>I</td>
<td>64</td>
<td>0</td>
</tr>
<tr>
<td>Histology Lecture and Laboratory</td>
<td>I</td>
<td>48</td>
<td>48</td>
</tr>
<tr>
<td>General Gross Anatomy</td>
<td>I</td>
<td>32</td>
<td>96</td>
</tr>
<tr>
<td>Radiology Lecture</td>
<td>I</td>
<td>16</td>
<td>0</td>
</tr>
<tr>
<td>Basic Computing Skills for Dental Students</td>
<td>I</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Radiology Lecture</td>
<td>II</td>
<td>16</td>
<td>0</td>
</tr>
<tr>
<td>Radiology Laboratory</td>
<td>II</td>
<td>12</td>
<td>0</td>
</tr>
<tr>
<td>Community Dentistry Field Experience</td>
<td>II</td>
<td>20</td>
<td>0</td>
</tr>
<tr>
<td>Clinic Observation</td>
<td>II</td>
<td>20</td>
<td>0</td>
</tr>
<tr>
<td>Dental Materials Science Lecture</td>
<td>II</td>
<td>32</td>
<td>0</td>
</tr>
<tr>
<td>Dental Materials Science Laboratory</td>
<td>II</td>
<td>32</td>
<td>0</td>
</tr>
<tr>
<td>Occlusion Lecture</td>
<td>II</td>
<td>16</td>
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<tr>
<td>Occlusion Laboratory</td>
<td>II</td>
<td>48</td>
<td>0</td>
</tr>
<tr>
<td>Head and Neck Anatomy</td>
<td>II</td>
<td>32</td>
<td>60</td>
</tr>
<tr>
<td>Oral Histology and Embryology</td>
<td>II</td>
<td>40</td>
<td>48</td>
</tr>
<tr>
<td>Physiology</td>
<td>II</td>
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<tr>
<td>Applied Biomedical</td>
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<tr>
<td>Cardio-Pulmonary Resuscitation</td>
<td>II</td>
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<tr>
<td>Periodontal Instrumentation</td>
<td>II</td>
<td>6</td>
<td>9</td>
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<td>General Neuroscience</td>
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### SCHEDULE OF COURSES (SOPHOMORE YEAR)

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Section VII: Faculty

The current faculty members in the existing program and their qualifications are listed below:

Albertine, K. H.
BA '75 Lawrence University,
PhD '78 Loyola Stitch School of Medicine
Professor Neurobiology & Anatomy,

Aldous, J. A.
MS '61 Northwestern University
DDS '59 Northwestern University
Associate Professor Dental Education

Ash, J. F.
BS '69 University of Illinois
PhD '74 Stanford University
Professor Neurobiology & Anatomy

Bailey, G. M.
BS '71 Brigham Young University
DDS '75 Northwestern University
Cert. '77 Northwestern University (Periodontics)
Adjunct Asst. Professor Dental Education

Christensen, G. J.
DDS '60 University of Southern California
MSD '63 University of Washington (Prosthodontics)
PhD '72 University of Denver
Adjunct Professor Dental Education

Faddis, K. A.
BS '85 University of Utah
DDS '90 Creighton University
Adjunct Instructor Dental Education

Hammond, D. C.
PhD '74 University of Utah
Adjunct Professor Physical Medicine & Rehabilitation

Hanson, G.
DDS, '73 UCLA
PhD '78 University of Utah
Professor Pharmacology & Toxicology
Lowder, G. W.
BS ’72 Brigham Young University
DDS ’76 University of Washington
Asst. Professor Dental Education

Michel, W.C.
PhD ’85 U of Cal. Santa Barbara
Professor Physiology

Morton, D.
BS ’98 Brigham Young University
MS ’01 University of Utah
PhD ’03 University of Utah
Asst. Professor Neurobiology & Anatomy

Olsen, B. T.
BA ’84 Utah State University
DDS ’87 University of Texas, San Antonio
MS ’94 University of Texas, Houston (Orthodontics)
Adjunct Asst. Professor Dental Education

Olson, C. J.
BA ’72 University of Utah Asst.
DDS ’77 West Virginia University
Professor Dental Education

Packer, B.
BA ’64 University of Utah
DDS ’68 Northwestern
Adjunct Instructor Dental Education

Powell, G. L.
BS ’64 University of Utah
DDS ’68 University of Washington
Professor Dental Education

Sorenson, D. K.
BS ’69 Brigham Young University
MS ’78 University of Utah
PhD ’75 Utah State University
Asst. Professor Medical Informatics
Steed, S. J.
BS ’70 Brigham Young University
DDS ’74 Northwestern University
Adjunct Instructor Dental Education

Woodward, R. O.
DDS ’68 University of Washington
Adjunct Instructor Dental Education