



Section on Operative Dentistry
and Biomaterials Program:

***Dental Biomaterials: Integrating Science
into the Clinical Curriculum with
Instruction Beyond the Classroom***

April 1, 2008
Dallas, Texas

**2007 National CODE Agenda:
Teaching Dental Biomaterials in
North American Dental Schools**

Responses: 49/68 schools (72%)

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Does your school have a distinct academic entity known as Dental Biomaterials or other similar title?

Yes 64% No 36%

(n= 49)

If yes, what is it called?

Biomaterials 34%

Dental Materials 25%

Dental Biomaterials 9%

Also: Biomaterials &: Bio-Eng, Bio-Mech, Bio-Mimetics

Dental Biomechanics, Biomaterial Science

If you have an entity, how is it classified?

Division 44%
Section 25%
Department 22%
Discipline, Center (n= 32)

If it is a subset of another dept, ID it:

Restorative / Operative
General / Comp Dentistry
Dental Research
Biological Science

How many & what type of faculty teach DBM in a 1° or 2° role?

Full-time, 1° teaching responsibility

1.44 avg. (0 – 5) range

Full-time, co-teach

2.29 (0 – 12)

Part-time teach

1.23 (0 – 5)

When in the curriculum is DBM taught ? (n= 49)

<u>Taught which year(s)</u>	<u>Taught how many yrs</u>
Freshman year 92%	1 year only 12%
Soph year 73%	2 years 20%
Junior year 69%	3 years 29%
Senior year 51%	all 4 years 39%

(taught in >1 year)

How is DBM taught at your school? (n = 49)

Separate Course(s) only

8%

(Fr only, Fr & Soph, Fr & Sr)

Part of another Course(s) only

12%

Combination (sep. & part of others)

80%

What format, setting, and method is used to teach DBM? (n=49)

Lecture	94%	<u>Aides / Strategies</u>
Laboratory	78%	PBL
Clinic	31%	VitalSource
Seminar (≥ 10)	22%	Lectures on web
Sm. Groups (1-5)	24%	Clinic Manual
Individ CD/DVD	6%	Blackboard
Individ Web	31%	Videos
Textbook	73%	Restor. Labs
School Manual	24%	

Textbooks used to teach DBM

Phillips

Craig

Obrien

Von Noort

McCabe

Operative Texts

Journals

Did your school experience a curriculum revision in last 7 yrs?

If Yes, what is the level of importance of DBM since revision?

3.375

(Scale: 1-5; low-high)

Was this rating an increase or decrease vs. pre-revision?

Increase 42%

Decrease 18%

No change 40%

(n = 33)

Does your school make a specific effort to integrate DBM into clinic?

Yes	<u>How is it done?</u>
73%	Lectures in clin yrs. Research Proj.
No	Faculty in-service
27%	Common Faculty
(n = 49)	Integrated curric Tx planning

Are you satisfied with the overall time
and effort allotted to teaching DBM?

Yes 52%

No 48%

(n =46)

If NOT satisfied, what would you change?

- More time
- Clinical reinforcement
- Better curriculum correlation
- Earlier Experiences
- Hands-on lab time
- More faculty
- Student interest level
- Advanced topics course

Summary

- 2/3's NA Dent Schools: BM, DM, or DBM unit
- A Divis., Sect., or Dept. assoc with Restorative
- Taught by: 1 FT , 2 FT-co, 1 PT Faculty
- Taught: all 4 yrs, Fr. most, & with other courses
- Lecture, lab, & textbook most common
- Import: 3.3 / 5 & Incr or No change last 7 yrs
- 70% clinic: Jr/Sr Courses, Faculty, Integr Curric
- ½ Satisfied but; more time, fac., & clin correl.

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