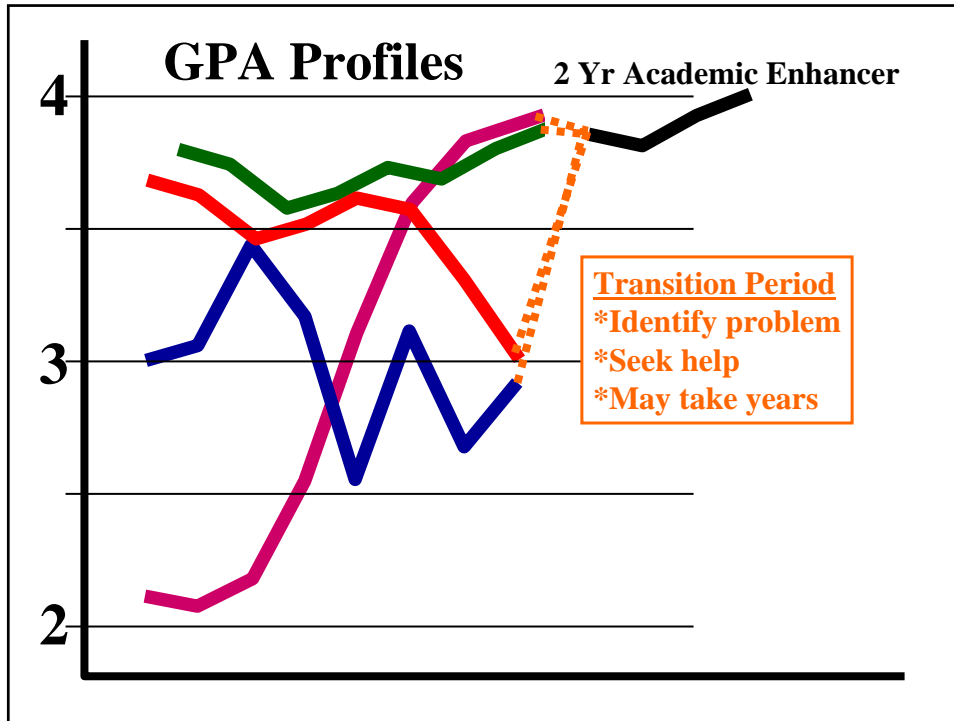


**WAAHP - 2007**  
**Academic Enhancer  
Post-Bac Programs**  
**Barry S. Rothman**  
**San Francisco State University**

**Purpose of A-E Programs**

- **Academic and social prep for Health Professions is very demanding**
- **Many undergrads have flawed records, especially in 1<sup>st</sup> & 2<sup>nd</sup> years**
  - ❖ *Is 18 the right age to begin college?*
- **Academic-Enhancer post-bac programs extend the time to mature and create a strong record**
  - ❖ *Poor early records are redeemable*



## Two Types of A-E Programs

### ■ Formal Programs

- ❖ *Structured, with cohort & director*
- ❖ *Certificate or degree may be offered*
- ❖ *May have good financial aid options*
- ❖ *Two sub-types:*
  - ➔ **Minority-Based: Outside Funding**
  - ➔ **Non-Minority Based: Pricey**

## Two Types of A-E Programs

### ■ Informal Programs

- ❖ *Not structured, no cohort, no director*
- ❖ *No certificate or degree offered*
- ❖ *May still have financial aid options*
- ❖ *Advantages: very flexible, inexpensive*

## A-E Curriculum

### ■ Retake Pre-Reqs with low grades

### ■ 2<sup>nd</sup>-Tier Science Courses

- ❖ *Biochemistry, Genetics, Physiology, Microbiology*

### ■ Advanced Science Courses

- ❖ *Major's level, e.g., Cellular Neuro*

### ■ “Non-Science” Courses

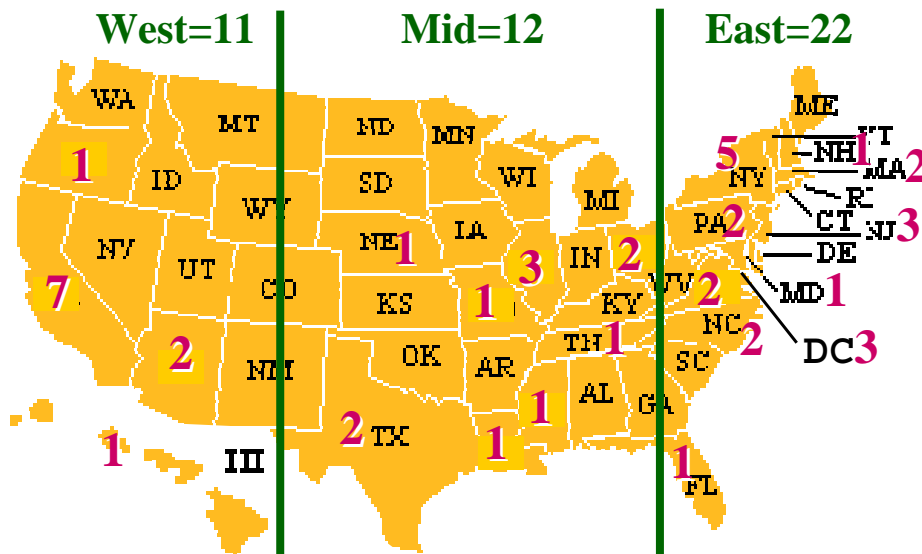
- ❖ *Health policy, CAM, languages,*

## A-E Stats

### ■ AMCAS lists 89 Post-Bac Programs

- ❖ 44 for *Career-Changers only*
- ❖ 28 for *Academic Enhancers only*
- ❖ 17 for *both*

## Locations of A-E P-B Programs



## Locations of A-E P-B Programs



## A-E Stats

### ■ Academic Enhancer Locations

#### ❖ *East = 22:*

→ NY=5, DC=3, NJ=3, MA=2, NC=2, FL=1,  
NH=1, VA=2, PA=2, MD=1

#### ❖ *Mid = 12*

→ IL=3, TX=2, OH=2, MS=1, LA=1,  
MO=1, NE=1, TN=1,

#### ❖ *West = 10*

→ CA=7, OR=1, AZ=2

## California A-E Programs

- CSU-LA (formal, disadvantaged)
- SFSU – Informal PB, \*Dent Reapp
- UC Davis (PB Consortium)
- \*UC Irvine (PB Consortium)
- UCLA-RAP (PB Consortium)
- UCSD (PB Consortium)
- UCSF (PB Consortium)

\*Not listed on AMCAS

*UCB Ex, SJSU, CSU-EB, others?*

## Arizona A-E Programs

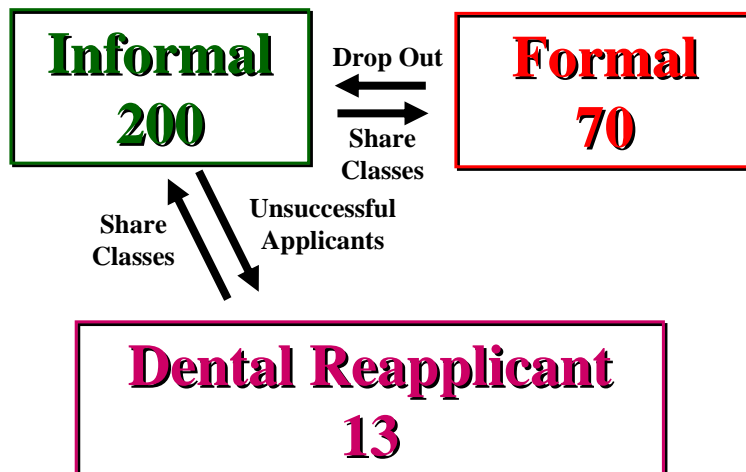
- Mid-Western Univ (BA), Glendale
  - ❖ *Formal, structured, 10-15 students*
  - ❖ *Juniors & Seniors*
  - ❖ *Career-Changer & Academic Enhancer*
- Mid-Western Univ (MA), Glendale
  - ❖ *Formal, structured, 15-25 students*
  - ❖ *Career-Changer & Academic Enhancer*
  - ❖ *Part of Special Masters program*

# Hawaii A-E Program

## ■ University of Hawaii at Manoa, Imi Ho'ola

- ❖ *Academic Enhancer only*
- ❖ *1 year*
- ❖ *Disadvantaged students*
- ❖ *Hawaiian and PI students only*
- ❖ *Adequate performers admitted to U of H Medical School!!*

# Multiple Post-Bac Programs on One Campus: SFSU



## SFSU Post-Bac Programs

- **Informal (N=200, 3 yrs)**
  - ❖ *Career Changers & Academic Enhancers*
- **Formal (N=18+50, 2 yrs)**
  - ❖ *Career Changers*
- **Dental Reapplicant (N=10, 1 yr)**
  - ❖ *Academic Enhancers*

## Informal Program

- **Grass-roots program for >20 years**
- **~200 students; ~3 years to complete**
- **Students enter as “2<sup>nd</sup>-Bacs”**
- **Full-time and part-time**
- **Classes not guaranteed, no cohort**
- **Tuition: \$4K/year (General Fund)**
- **Success: 60%-80%**
  - ❖ *Many student orgs give structure*

## **Informal Program**

- **Handles Career-Changers (75%) and Academic-Enhancers (~25%)**
- **Classes taken w undergrads**
- **Pre-Meds (85%), Pre-Dents (20%), Other (5%)**
- **Diverse: 66% students of color, 33% URM**
- **Interfaces with UCSF Med PB and SFSU/UCSF/UoP Dental Reapp**

## **Formal Program**

- **Begun June, 2006**
- **Cohort 1 (N=18); Cohort 2 (N=50)**
- **Students enter through CEL**
- **Full-time only; 2 years to complete**
- **Classes guaranteed, post-bac only**
- **Tuition: \$15K/year**
  - ❖ *Profits used to fund disadv programs*
- **Success: ???**

## Formal Program

- Certificate; Career-Changers only
  - ❖ *Academic-Enhancer program in prep*
- Diverse: 44% students of color, 22% URM
- Cohort 1
  - ❖ *Pre-Meds (17/18), Pre-Dents (1/18)*
- Cohort 2: similar, N=50
  - ❖ *Emerging Theme: RN → MD*

## Dental Reapplicant Program

- Begun at UCSF in 1998; now at SFSU
  - ❖ *Partners with UCSF & UoP Dent Schools*
- Academic-Enhancer only
- 10-15 disadvantaged students/cohort
- Enter as informal PBs
- Full-time only; 1 year to complete
- Classes not guaranteed, w undergrads

## Dental Reapplicant Program

- **Highly supportive - \$\$\$ from TCE**
  - ❖ *Summer room & board, Tuition, DAT prep and AADSAS applications covered*
  - ❖ *Learning, Stress-Management & Group-Process specialists*
- **Success: almost 100% in past**

## Core Courses

Total: 39 Units

Biol 230	Introductory Biology I & Lab	5
Biol 240	Introductory Biology II & Lab	5

### Supplementary Courses

BIOL 328/9	Human Anatomy*.....	3
BIOL 350	Cell Biology†.....	3
BIOL 355	Genetics†.....	3
BIOL 357	Molecular Genetics‡.....	3
BIOL 361	Human Genetics‡.....	3
BIOL 382	Developmental Biology‡.....	3
BIOL 401/402	Gen Microbiology & Lab†.....	3/2
BIOL 430	Medical Microbiology‡.....	5
BIOL 343/435/436	Immunology/Lab‡.....	3/3/2
BIOL 439	Medical Mycology‡.....	4
BIOL 464	Medical Entomology‡.....	3
BIOL 612/613	Human Physiology & Lab*.....	3/2
BIOL 614	Vertebrate Histology‡.....	4
BIOL 615	Molecular Pathophysiology‡.....	3

### Supplementary Courses

BIOL 616	Cardiovascular Physiology‡.....	3
BIOL 620	Endocrinology‡.....	3
BIOL 621	Reproductive Physiology‡.....	3
BIOL 622	Hormones & Behavior‡.....	3
BIOL 625	Hematology‡.....	3
BIOL 640/642	Cellular/Systems Neuroscience‡.....	3/3
BIOL/CHEM 699	Special Study in Biol/Chem‡.....	1-3
CHEM 340/341 or 349	Biochemistry I/II‡.....	3
CHEM 347/348	Clinical Biochemistry/Lab‡.....	2/2
CHEM 338	Research Organic Chem Lab‡.....	3
MATH 124	Statistics#.....	3
BIOL 458	Biometry#.....	4
MATH 220-228	Calc & Analyt Geom #.....	3each

## Core Courses

Chem 115	General Chemistry I & Lab	5
Chem 333	Organic Chemistry I	3
Chem 334	Organic Chemistry I Lab	2
Chem 335	Organic Chemistry II	3
Chem 336	Organic Chemistry II Lab	3
Chem 215	General Chemistry II	3
Chem 216	General Chemistry II Lab	2

## Core Courses

Phys 111	General Physics I	3
Phys 112	General Physics I Lab	1
Phys 121	General Physics II	3
Phys 122	General Physics II Lab	1