

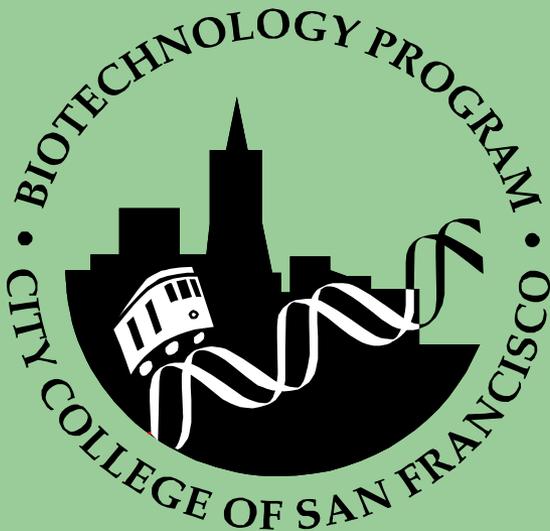
CITY
COLLEGE
OF SAN FRANCISCO



Bridge to Biotech

City College of San Francisco

Learning Communities to Promote
Recruiting and Retaining Students





History

- Biotech program at City College of San Francisco started in 1991.
- Steady increase in the number of classes and students:
 - **currently: 600 students, 35 classes**
- The program has successfully produced well-trained students and continues to place them in laboratory and manufacturing jobs throughout the Bay Area.



Biotech Program: Overview

- Target students
 - Adults
 - returning students with AA or BA
 - credit & non-credit ESL students
 - Displaced workers
 - High school students
 - Under-prepared students
- Biotech courses with real job component
- Well defined career lattice
- Impact on Community



Bridge to Biotech: Features

- One semester in length
- Provides necessary background to enter our other Biotechnology certificate programs
- Targets adult students with **NO BIOLOGY** background and 8th grade Math and English skills.
- Integrated, Contextualized Curriculum, composed of three classes:
 - Research Skills for Biotech (BTEC 10)
 - Language of Biotechnology (ET 107)
 - Biotech Math (ET 108A)



Bridge to Biotech:

Increased Retention and Completion for Under-prepared students

Started in 2002, with VTEA grant and NSF-CCLI grant (\$500K)

- On average 30-40 Students per semester
- 82% low Income or unemployed students
- Diversity: 18% African American, 33% Asian, 22% Hispanic
- Language: 42% ESL students

Targets adult students with no scientific background and 8-9th grade Math and English skills

- On average 82% of students complete the Bridge

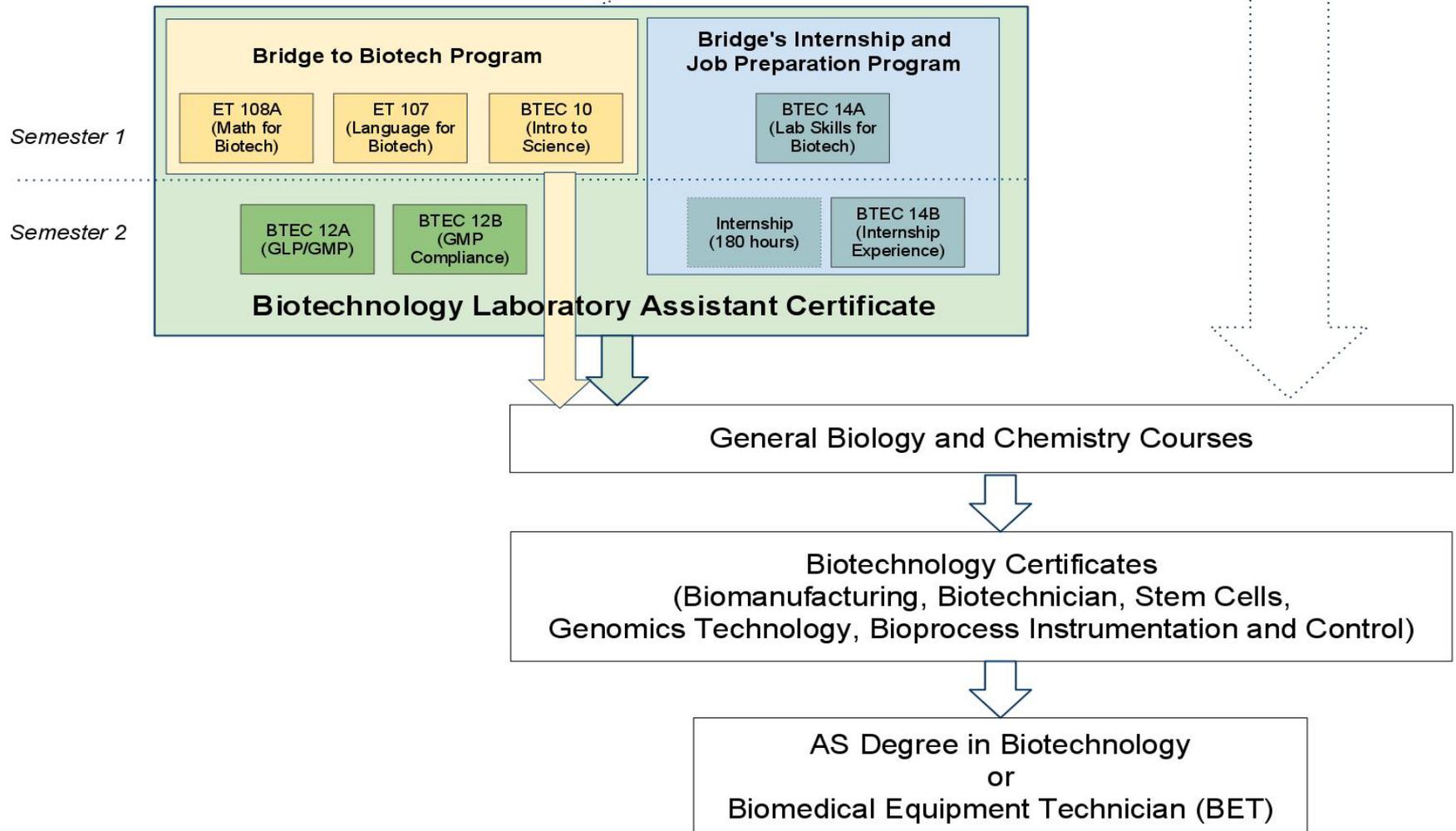
Provides necessary background to enter Biotechnology programs at CCSF

- On average, 83% of students enroll in Biotech Program upon completion of Bridge

Bridge to Biotech (B2B) Program at City College of San Francisco

Entryway for students without any scientific background

General entryway to the Biotechnology Degree courses for students with some scientific background





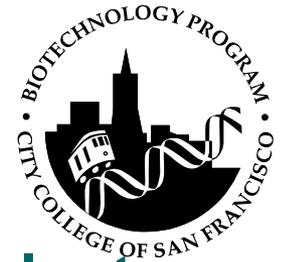
Bridge to Biotech:

Increased job placement for under-served students

Bridge's Internship and Job Preparation Program (BIJP) started in 2004, with Bay Area Workforce Funding Collaborative grant **(\$500K)**

Offers:

- internship and job preparation,
 - internship and job placement assistance,
 - monitoring and support during the internship
-
- Approximately 25-35 Students per semester
 - Approximately, 75% of Bridge students enroll in BTEC 14A the same semester.
 - Approximately 75% of students who begin the BIJP program go into an Internship
 - On average, 40% employed in biotech industry within a year of completion of the internship (Lab Assistant or Lab Technician)



Bridge to Biotech:

Increased job placement for under-served students

2-semester program :

Semester 1: Basic Biotech Lab Skills class (BTEC 14A) to prepare for the internship (Optional: can be taken during the Bridge, or after.)

- In Spring 2010, 17% of BTEC 14A students were past Bridge students.

Semester 2:

- 180-hour research internship in Bay Area laboratories as Lab Assistant and Lab Technicians.
- Biotech Internship Experience class (BTEC 14B) to support during the internship and prepare for a job
- Possibility of getting 3 extra units of credits for internship experience itself (BTEC 93)



Bridge to Biotech:

Dissemination to other colleges

Bio-Link, a National ATE Center of Excellence for Biotechnology, received a grant from NSF through the SYNERGY project to disseminate the Bridge to Biotech program to colleges around the U.S.

Current partners in the first cohort include Atlanta Technical College, Athens Technical College, and Gwinnett Technical College, GA; Tompkins Cortland Community College, NY; Universidad el Turabo, PR; St. Louis Community College, MO.

CURRENT TEAM

- Edie Kaeuper, Biomanufacturing & Bridge Science Coordinator
- Carin Zimmerman, Stem Cell and Genomics Coordinator & Bridge Science Instructor
- James Lewis, Bridge Internship coordinator (former)
- Rob Yung, Bridge Language Instructor
- Rob Reed, Bridge Math Instructor
- Elaine Johnson, Bio-Link Director
- John Carrese, Synergy Program Coordinator
- Laurence Clement, Synergy Program Coordinator & Internship Instructor

7th Biotech Networking Event, CCSF

