NYU VIP Site Updates

Jack Bringardner, Director of VIP
Maria DiKun, Manager of VIP
5/11/2023
NYU Tandon & VIP Snapshot

About Tandon School of Engineering
- Downtown Brooklyn campus
- 7,000 students (NYU 40,000+)
- New Dean 5 years ago
- MakerSpace opened 7 years ago
- Curriculum Overhaul Committee
- Decentralized schools & global sites

About NYU VIP Program
- VIP started in Fall 2016
- Dean’s initiative
- 1st Director Associate Dean of Academics
- Design and undergrad summer research
- Credit policy created by departments
- Expanding to rest of NYU
NYU VIP Site Updates

1. Growth
2. Outreach
3. Featured Teams
4. Resources
GROWTH

At Tandon and beyond
Snapshot of VIP Today

- **45** teams
- **54** advisors
  - 4 advise 2 teams
- **760** students currently enrolled (↑100 since Fall 2022)
- **1819** NYU students have had VIP on their transcript since 2016
Faculty VIP Team Proposal

Advisor submits 
VIP Team Proposal Form

VIP Manager responds to either set up a meeting or request more information

After the meeting, if the team is determined to move forward, advisor will submit the VIP Team Info Sheet

VIP Manager will respond giving the final 'green light' that your team will launch, or asking you to make minor edits.

Your team page will be made and you will begin to receive applications in the next enrollment cycle
VIP Staff Expansion

Before:
- Director
  - Associate/Assistant Director (100%)
  - Manager (100%)
  - Coordinator (50% / 100%)

After:
- Director
  - Associate Director (100%)
  - Assistant Director (100%)
  - Manager (100%)
  - Administrator (100%)
NYU VIP Credit Policies

<table>
<thead>
<tr>
<th>NYU Tandon Department</th>
<th>Free Elective</th>
<th>In-Major Elective</th>
<th>Capstone/Senior Design</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applied Physics</td>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemical &amp; Biomolecular Engineering</td>
<td>✔</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>Civil &amp; Urban Engineering</td>
<td>✔</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>Computer Science</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Electrical &amp; Computer Engineering</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Mathematics (Tandon)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mechanical &amp; Aerospace Engineering</td>
<td>✔</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>Technology, Culture &amp; Society</td>
<td>✔</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>Technology Management &amp; Innovation</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## NYU VIP Accessibility

<table>
<thead>
<tr>
<th>Sex</th>
<th>Percent Tandon</th>
<th>Percent VIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male Identifying</td>
<td>62%</td>
<td>56%</td>
</tr>
<tr>
<td>Female Identifying</td>
<td>38%</td>
<td>44%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Percent Tandon</th>
<th>Percent VIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nonresident aliens (international students)</td>
<td>22%</td>
<td>19%</td>
</tr>
<tr>
<td>Hispanic/Latino (residents)</td>
<td>14%</td>
<td>14%</td>
</tr>
<tr>
<td>Black or African American, non-Hispanic (residents)</td>
<td>6%</td>
<td>5%</td>
</tr>
<tr>
<td>White, non-Hispanic (residents)</td>
<td>16%</td>
<td>14%</td>
</tr>
<tr>
<td>American Indian or Alaska Native, non-Hispanic (residents)</td>
<td>0%</td>
<td>0%</td>
</tr>
<tr>
<td>Asian, non-Hispanic (residents)</td>
<td>32%</td>
<td>35%</td>
</tr>
<tr>
<td>Native Hawaiian or other Pacific Islander, non-Hispanic (residents)</td>
<td>0%</td>
<td>0%</td>
</tr>
<tr>
<td>Two or more races, non-Hispanic (residents)</td>
<td>3%</td>
<td>5%</td>
</tr>
<tr>
<td>Race and/or ethnicity unknown (residents)</td>
<td>7%</td>
<td>8%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>First Generation Status</th>
<th>Percent Tandon</th>
<th>Percent VIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Generation student</td>
<td>33%</td>
<td>36%</td>
</tr>
<tr>
<td>Non-First Generation student</td>
<td>67%</td>
<td>64%</td>
</tr>
</tbody>
</table>
OUTREACH

Building Connections
Times Higher Ed Summit

Campus tour: NYU Tandon MakerSpace
Meeting point: Kimmel Center lobby at 14:15

Join a guided tour of the NYU Tandon School of Engineering MakerSpace, a 10,000-square-foot ideation lab that President Andrew Hamilton referred to as “a fantastically well-equipped place for students to transform creative ideas into solid form and a way to leverage the school’s unique blend of technology, creativity and innovation here in Brooklyn, the fast-beating heart of New York’s innovation sector”.

Following the tour, the bus will depart from NYU Tandon MakerSpace at 16:00 and return to Manhattan, making a stop at the Kimmel Center and then at the New York Marriott Marquis.
Scaling Up: Multiyear Research Projects Give Students Career Experience

At New York University’s engineering school, the Vertically Integrated Projects program provides experiential learning and research opportunities for students.
Team Types

- Research
- Industry-sponsored
- Design
- Entrepreneurial
- Service Learning
NYC Funded Flood Research
NYU X Purdue VIP

NYU Processor Design (GY)

- Taking chips from conception to tape-out using cutting-edge technologies in open hardware design

SoCET

Advisors:
- Matthew Swabey
- Mark C Johnson

This team is eligible for senior design.
NYC Funded Research

Sixth Sense (GY)
Addressing the challenges of mobility faced by the visually-impaired by developing technologies for navigation and obstacle avoidance.

AR/VR Work in AEC
Leveraging realistic AR/VR environment for Architecture, Engineering, Construction (AEC).

Defining Accessibility in XR
Innovate, explore, imagine, build and create accessible extended reality experiences that will truly be inclusive in their design.
NYC Funded Research

Inclusion, Diversity, Belonging, and Equity in STEM

Creating Connections
Therapeutic Art for Patients with Neurologic Disorders
Faculty Compensation

Responsibility over the team
• Direction and vision of the project, ensuring all students are engaged
• Creation of the syllabus
• Grading and tracking VIP notebooks
• Management of team / student issues and conflicts / grade concerns
• Ensure teams keep shared spaces orderly and follow the guidelines of these spaces
• Fair and inclusive admission processes

Be the main point of contact for VIP Management
• Relay messages from VIP Management to the team and vice versa
• Keep VIP Management informed of team accomplishments and issues when necessary

Overview and approval of all team budgetary matters
• Lookover and approve reasonable yearly budget request, timely review of purchasing
• Hold team responsible for staying within budget and making informed purchases
• Review travel expenses and team conference competition details
• Ensure teams abides by NYU and VIP travel and expense policies
VIP Program LMS Page

Resource center for Advisors
• Templates
  • VIP Notebook
  • Syllabus
  • Info Sheet (Application)
• Budget
• Communications
• Policies
• Guidelines

Resource center for Students
• Budgets
  • Budget Proposals
  • Budget Tracking
• Purchasing & iBuy policies
• Finance
  • Finance Leads
  • Reimbursement Process
• Policies and Procedures
  • Following NYU Standards
  • General Conduct
  • Enrollment & Academics
• MakerSpace and Maker Garage
  • Policies / Agreements
  • Trainings