Interdisciplinary Education in USTC

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Interest-based Choice of Major

1st Year: Change Major Among Schools

2nd Year: Change Major Inside School

3rd Year: Characterized Curriculum

Design a characterized curriculum assisted by a counselor

Statistics of applications to change major after 1st year

<table>
<thead>
<tr>
<th>Year</th>
<th># of Total Student</th>
<th># of Submitted Applications</th>
<th>Ratio of Submission</th>
<th># of Approved Applications</th>
<th>Ratio of Approval</th>
</tr>
</thead>
<tbody>
<tr>
<td>2011</td>
<td>1802</td>
<td>235</td>
<td>13.0%</td>
<td>205</td>
<td>87.2%</td>
</tr>
<tr>
<td>2012</td>
<td>1814</td>
<td>186</td>
<td>10.3%</td>
<td>164</td>
<td>88.2%</td>
</tr>
<tr>
<td>2013</td>
<td>1847</td>
<td>215</td>
<td>11.6%</td>
<td>192</td>
<td>89.3%</td>
</tr>
<tr>
<td>2014</td>
<td>1873</td>
<td>297</td>
<td>15.9%</td>
<td>269</td>
<td>90.6%</td>
</tr>
<tr>
<td>2015</td>
<td>1934</td>
<td>250</td>
<td>12.9%</td>
<td>209</td>
<td>83.6%</td>
</tr>
<tr>
<td>2016</td>
<td>1801</td>
<td>307</td>
<td>17.0%</td>
<td>262</td>
<td>85.3%</td>
</tr>
<tr>
<td>2017</td>
<td>1871</td>
<td>378</td>
<td>20.2%</td>
<td>305</td>
<td>80.7%</td>
</tr>
</tbody>
</table>
Science & Society-Freshmen Seminars

- Compulsory course for freshmen, 1 credit;

- About 100 freshmen seminars are offered every year; Enrollment in each seminar is limited to 15-20 students.

- Course schedule:
  Autumn Semester: 5~6 Plenary Lecture;
  Spring Semester: group discussion, reading and presentation.
Examples of FS themes:

- Big Data and Public Transportation;
- Artificial Intelligence: Application & Present Situation
- Introduction To Mathematical Cryptography
- Building Science & Life of Human Beings
- Food Additives
- Fire Safety for Spacecraft
- Microbial fuel cells
...
USTC is one of the most important innovation centers in China, being the only university in China operating two national labs, and jointly operates two national scientific large facilities.

- Experimental Advanced Superconducting Tokamak
- Experimental Facility of Stable High Magnetic Facilities
- National Synchrotron Radiation Laboratory
- Hefei National Laboratory for Physical Sciences
Objectives: Inspire students' innovative thinking and enhance student scientific research, practice and innovation as well as entrepreneurship.

Funding: 10000~20000 (CNY) for each project
Period: 1~2 Year


<table>
<thead>
<tr>
<th></th>
<th>2015</th>
<th></th>
<th>2016</th>
<th></th>
<th>2017</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Number of Projects</td>
<td>Total Funding amount (in CNY)</td>
<td>Number of Projects</td>
<td>Total Funding amount (in CNY)</td>
<td>Number of Projects</td>
<td>Total Funding amount (in CNY)</td>
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<tr>
<td>ITP</td>
<td>120</td>
<td>2.17M</td>
<td>126</td>
<td>2.26M</td>
<td>120</td>
<td>2.14M</td>
</tr>
<tr>
<td>ETP</td>
<td>10</td>
<td>0.19M</td>
<td>4</td>
<td>0.18M</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total</td>
<td>130</td>
<td>2.36M</td>
<td>130</td>
<td>2.44M</td>
<td>120</td>
<td>2.14M</td>
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</tbody>
</table>
Student Numbers by School (2015-2017)

<table>
<thead>
<tr>
<th>Year</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
</tr>
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<tbody>
<tr>
<td>Totally Involved Student Numbers</td>
<td>335</td>
<td>314</td>
<td>300</td>
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</tbody>
</table>
About 100 undergraduate students participate in iGEM each year. eg. 2015, Wet Lab: 19 students (of 33 students); USTC-Software: 21 students (of 66 students)

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</tr>
</thead>
<tbody>
<tr>
<td>Wet-Lab</td>
<td>2</td>
<td>13</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Software</td>
<td>5</td>
<td>0</td>
<td>1</td>
<td>3</td>
<td>7</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td></td>
<td>0</td>
</tr>
</tbody>
</table>
Since 2007:
- 13 Gold medals
- 1 Silver Medal
- 1 Copper Medal
- 2 Best Software Tools Project Award (2010, 2012)

2015 iGEM, Hynes Convention Center, Boston, US
The Statistical Results to Choose a Major

2013: 293 students

- Physics: 37.7%
- Math: 27.9%
- Chemistry&Material: 9.8%
- Information S&T: 6.0%
- Computer: 5.7%
- Engineering: 4.4%
- Statics: 2.4%
- Earth&Space: 2.4%
- Other: 2.4%
- Life Science: 1.4%
Basic Statistics of Alumni graduated from SGY for more than 10 years (810 Alumni totally)

- 55% of the 810 alumni are working in Business
- 35% of them in the fortune 500
- 17% of the 810 alumni are working in Finance in China or Overseas
- 9.5% in the科教界
- 18.5% in 其他
Thank you for your attention