University of Puerto Rico at Aguadilla
Office of Planning and Institutional Research (OPIR)

Natural Sciences Department Dashboard 2019-2020

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Director OPEI

Prepared by:
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Administrative Assistant

November, 2019
ACADEMIC PROGRAMS

• Bachelor’s of Science in Biology, through its five areas of emphasis:
  - Biomedicine
  - General Biology
  - Genetics
  - Bioinformatic
  - Quality Systems Evaluation

• Bachelor of Science in Environmental Technology, through its four areas of emphasis:
  - Environmental Technology
  - Environmental Chemistry
  - Ecological Assessment
  - Environmental Health and Safety

• Articulated Transfer Program UPR-Mayagüez towards Bachelor of Science in:
  - Nursing
  - Chemical

INSTITUTIONAL ACCREDITATION AND LICENSE

• Licensed by the Puerto Rico Council on Higher Education (PRCHE) since 1997 (Certification Num. 2007-097 PRCHE).
Natural Sciences Department
FRESHMAN DISTRIBUTION

<table>
<thead>
<tr>
<th>Year</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017-2018</td>
<td>268</td>
</tr>
<tr>
<td>2018-2019</td>
<td>235</td>
</tr>
<tr>
<td>2019-2020</td>
<td>222</td>
</tr>
</tbody>
</table>

FRESHMAN ENROLLMENT OF PART-TIME AND FULL-TIME STUDENTS

<table>
<thead>
<tr>
<th>Year</th>
<th>Full-Time</th>
<th>Part-Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017-2018</td>
<td>268</td>
<td>0</td>
</tr>
<tr>
<td>2018-2019</td>
<td>235</td>
<td>0</td>
</tr>
<tr>
<td>2019-2020</td>
<td>222</td>
<td>0</td>
</tr>
</tbody>
</table>

FRESHMAN GENDER DISTRIBUTION

<table>
<thead>
<tr>
<th>Year</th>
<th>Female</th>
<th>Male</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017-2018</td>
<td>171</td>
<td>97</td>
</tr>
<tr>
<td>2018-2019</td>
<td>158</td>
<td>77</td>
</tr>
<tr>
<td>2019-2020</td>
<td>139</td>
<td>83</td>
</tr>
</tbody>
</table>

DISTRIBUTION OF THE FRESHMAN BY TYPE OF SCHOOL

<table>
<thead>
<tr>
<th>Year</th>
<th>Public School</th>
<th>Private School</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017-2018</td>
<td>208</td>
<td>60</td>
</tr>
<tr>
<td>2018-2019</td>
<td>177</td>
<td>58</td>
</tr>
<tr>
<td>2019-2020</td>
<td>170</td>
<td>52</td>
</tr>
</tbody>
</table>
THE IGS OF HIGH SCHOOL STUDENTS UPON ENTERING THE UPR-AGUADILLA

College Board Average:
- Verbal Aptitude:
  - 2017-2018: 371
  - 2018-2019: 315
  - 2019-2020: 311

College Board Average:
- Mathematical Aptitude:
  - 2017-2018: 579
  - 2018-2019: 560
  - 2019-2020: 554

THE GPA OF THESE STUDENTS AT THE END OF THE FIRST UNIVERSITY YEAR

DISTRIBUTION OF STUDENT APPLICATION (BY ALTERNATIVE)

FRESHMEN DEMAND OF AGUADILLA AND NEIGHBORING TOWNS

DISTRIBUTION STUDENTS NEW ENTRY BY PROGRAM

FRESHMEN RACE OR ETHNICITY DISTRIBUTION

<table>
<thead>
<tr>
<th>Race or Ethnicity</th>
<th>2017-2018</th>
<th>2018-2019</th>
<th>2019-2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hispanic or Latino</td>
<td>246</td>
<td>235</td>
<td>221</td>
</tr>
<tr>
<td>Black or African American</td>
<td>21</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Native American</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Alaska Native</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Native Hawaiian or Other Pacific Islander</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Asian</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Write</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>More Than One Race Reported</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Race Not Reported or Unknown</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Total</td>
<td>268</td>
<td>235</td>
<td>222</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Aguadilla</td>
<td>47</td>
<td>46</td>
<td>48</td>
</tr>
<tr>
<td>Aguada</td>
<td>38</td>
<td>42</td>
<td>40</td>
</tr>
<tr>
<td>Isabela</td>
<td>45</td>
<td>28</td>
<td>26</td>
</tr>
<tr>
<td>Moca</td>
<td>33</td>
<td>27</td>
<td>29</td>
</tr>
<tr>
<td>San Sebastián</td>
<td>26</td>
<td>27</td>
<td>22</td>
</tr>
<tr>
<td>Total</td>
<td>189</td>
<td>170</td>
<td>165</td>
</tr>
</tbody>
</table>

Bachelor's of Science in Biology
Bachelor's of Science in Environmental Technology
Articulated Transfer - Nursing
Articulated Transfer - Chemical
### Total Enrollment Distribution

- **2016-2017**: 1074
- **2017-2018**: 1079
- **2018-2019**: 1012
- **2019-2020**: 932

### Race or Ethnicity Distribution

<table>
<thead>
<tr>
<th>Race</th>
<th>2018-2020</th>
<th>2019-2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black or African American</td>
<td>14</td>
<td>12</td>
</tr>
<tr>
<td>Native American</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Alaska Native</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>Native Hawaiian or Other Pacific Islander</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Asian</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Write</td>
<td>19</td>
<td>9</td>
</tr>
<tr>
<td>More Than One Race Reported</td>
<td>459</td>
<td>2</td>
</tr>
<tr>
<td>Race Not Reported or Unknown</td>
<td>517</td>
<td>907</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>1012</strong></td>
<td><strong>932</strong></td>
</tr>
</tbody>
</table>

### Ethnicity Distribution

<table>
<thead>
<tr>
<th>Ethnicity</th>
<th>2018-2020</th>
<th>2019-2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hispanic or Latino</td>
<td>1012</td>
<td>931</td>
</tr>
<tr>
<td>No-Hispanic or Latino</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Ethnicity Not Reported or Unknown</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>1012</strong></td>
<td><strong>932</strong></td>
</tr>
</tbody>
</table>

### Rate of Degrees Awarded of the Department

- **2016-2017**: 43%
- **2017-2018**: 44%
- **2018-2019**: 53%
TOTAL ENROLLMENT OF PART-TIME AND FULL-TIME STUDENTS

<table>
<thead>
<tr>
<th>Year</th>
<th>Full-Time</th>
<th>Part-Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016-2017</td>
<td>1011</td>
<td>63</td>
</tr>
<tr>
<td>2017-2018</td>
<td>1027</td>
<td>52</td>
</tr>
<tr>
<td>2018-2019</td>
<td>947</td>
<td>65</td>
</tr>
<tr>
<td>2019-2020</td>
<td>887</td>
<td>45</td>
</tr>
</tbody>
</table>

TOTAL ENROLLMENT BY GENDER

<table>
<thead>
<tr>
<th>Year</th>
<th>Female</th>
<th>Male</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016-2017</td>
<td>701</td>
<td>373</td>
</tr>
<tr>
<td>2017-2018</td>
<td>696</td>
<td>383</td>
</tr>
<tr>
<td>2018-2019</td>
<td>666</td>
<td>346</td>
</tr>
<tr>
<td>2019-2020</td>
<td>602</td>
<td>330</td>
</tr>
</tbody>
</table>

RATE RETENTION OF THE DEPARTMENT

<table>
<thead>
<tr>
<th>Year</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016-2017</td>
<td>83.0%</td>
</tr>
<tr>
<td>2017-2018</td>
<td>82.0%</td>
</tr>
<tr>
<td>2018-2019</td>
<td>80.0%</td>
</tr>
</tbody>
</table>
Programs of Natural Sciences Department
Bachelor of Science in Biology with concentration in Biomedicine
Since the academic year 2010-11, new students from high school and transfers from private institutions, who were admitted to the General Biology Program, are classified in one of five sub-categories:

- Biomedicine
- General Biology
- Genetics
- Bioinformatics
- Quality Systems Evaluation

Due to changes in admission applications, new students from high school and transfers from private institutions, who entered at the Bachelor of Biology were classified into one category so they do not have specific dates for academic retention program from the academic year 2011-2012.
Due a change in applications for admission for the year 2010-11, new students from high school and transfers from private institutions, who entered at the Bachelor of Biology, were classified into one category.
Bachelor of Science in Biology with concentration in Genetics
Since the academic year 2010-11, new students from high school and transfers from private institutions, who were admitted to the General Biology Program, are classified in one of five sub-categories:
- Biomedicine
- General Biology
- Genetics
- Bioinformatics
- Quality Systems Evaluation

Due to changes in admission applications, new students from high school and transfers from private institutions, who entered at the Bachelor of Biology were classified into one category so they do not have specific dates for academic retention program from the academic year 2011-2012.
Due to a change in applications for admission for the year 2010-11, new students from high school and transfers from private institutions, who entered at the Bachelor of Biology, were classified into one category.
Bachelor of Science in Biology with concentration in General Biology
Since the academic year 2010-11, new students from high school and transfers from private institutions, who were admitted to the General Biology Program, are classified in one of five sub-categories:

- Biomedicine
- General Biology
- Genetics
- Bioinformatic
- Quality Systems Evaluation

Due to changes in admission applications, new students from high school and transfers from private institutions, who entered at the Bachelor of Biology were classified into one category so they do not have specific dates for academic retention program from the academic year 2011-2012.

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**TOTAL ENROLLMENT DISTRIBUTION**

- 2016-2017: 296
- 2017-2018: 286
- 2018-2019: 288

**DEGREES AWARDED**

- 2016-2017: 13
- 2017-2018: 16
- 2018-2019: 15

**RETENTION BY ACADEMIC PROGRAM**

- 2016-2017: 92.0%
- 2017-2018: 88.0%
- 2018-2019: 82.0%
Due a change in applications for admission for the year 2010-11, new students from high school and transfers from private institutions, who entered at the Bachelor of Biology, were classified into one category.
Bachelor of Science in Biology with concentration in Bioinformatic
Since the academic year 2010-11, new students from high school and transfers from private institutions, who were admitted to the General Biology Program, are classified in one of five sub-categories:

- Biomedicine
- General Biology
- Genetics
- Bioinformatic
- Quality Systems Evaluation

Due to changes in admission applications, new students from high school and transfers from private institutions, who entered at the Bachelor of Biology were classified into one category so they do not have specific dates for academic retention program from the academic year 2011-2012.
Due a change in applications for admission for the year 2010-11, new students from high school and transfers from private institutions, who entered at the Bachelor of Biology, were classified into one category.
Bachelor of Science in Biology with concentration in Quality Systems Evaluation
Since the academic year 2010-11, new students from high school and transfers from private institutions, who were admitted to the General Biology Program, are classified in one of five sub-categories:

- Biomedicine
- General Biology
- Genetics
- Bioinformatics
- Quality Systems Evaluation

Due to changes in admission applications, new students from high school and transfers from private institutions, who entered at the Bachelor of Biology were classified into one category so they do not have specific dates for academic retention program from the academic year 2011-2012.
Due a change in applications for admission for the year 2010-11, new students from high school and transfers from private institutions, who entered at the Bachelor of Biology, were classified into one category.
Bachelor of Science in Environmental Technology
Since the academic year 2014-15, new students from high school and transfers from private institutions, who were admitted to the Environmental Technology Program, are classified in one of four sub-categories:

- Environmental Technology
- Ecological Assessment
- Environmental Chemistry
- Environmental Health and Safety

Due to changes in admission applications, new students from high school and transfers from private institutions, who entered at the Bachelor of Environmental Technology were classified into one category so they do not have specific dates for academic retention program from the academic year 2014-2015.
Due to changes in admission applications, new students from high school and transfers from private institutions, who entered at the Bachelor of Environmental Technology were classified into one category so they do not have specific dates for academic retention program from the academic year 2014-2015.
Bachelor of Science in Environmental Technology with concentration in Ecological Assessment
Since the academic year 2014-15, new students from high school and transfers from private institutions, who were admitted to the Environmental Technology Program, are classified in one of four sub-categories:

- Environmental Technology
- Ecological Assessment
- Environmental Chemistry
- Environmental Health and Safety

Due to changes in admission applications, new students from high school and transfers from private institutions, who entered at the Bachelor of Environmental Technology were classified into one category so they do not have specific dates for academic retention program from the academic year 2014-2015.
Due to changes in admission applications, new students from high school and transfers from private institutions, who entered at the Bachelor of Environmental Technology were classified into one category so they do not have specific dates for academic retention program from the academic year 2014-2015.
Bachelor of Science in Environmental Technology with concentration in Environmental Health and Safety
Since the academic year 2014-15, new students from high school and transfers from private institutions, who were admitted to the Environmental Technology Program, are classified in one of four sub-categories:
- Environmental Technology
- Ecological Assessment
- Environmental Chemistry
- Environmental Health and Safety

Due to changes in admission applications, new students from high school and transfers from private institutions, who entered at the Bachelor of Environmental Technology were classified into one category so they do not have specific dates for academic retention program from the academic year 2014-2015.
Due to changes in admission applications, new students from high school and transfers from private institutions, who entered the Bachelor of Environmental Technology were classified into one category so they do not have specific dates for academic retention program from the academic year 2014-2015.
Bachelor of Science in Environmental Technology with concentration in Environmental Chemistry
Since the academic year 2014-15, new students from high school and transfers from private institutions, who were admitted to the Environmental Technology Program, are classified in one of four sub-categories:

- Environmental Technology
- Ecological Assessment
- Environmental Chemistry
- Environmental Health and Safety

Due to changes in admission applications, new students from high school and transfers from private institutions, who entered at the Bachelor of Environmental Technology were classified into one category so they do not have specific dates for academic retention program from the academic year 2014-2015.
Due to changes in admission applications, new students from high school and transfers from private institutions, who entered at the Bachelor of Environmental Technology were classified into one category so they do not have specific dates for academic retention program from the academic year 2014-2015.
Articulated Transfer Program
UPR-Mayagüez toward Bachelor of Science in Nursing
FRESHMAN DISTRIBUTION

TOTAL ENROLLMENT DISTRIBUTION

RETENTION BY ACADEMIC PROGRAM

TOTAL ENROLLMENT OF PART-TIME AND FULL-TIME STUDENTS
DISTRIBUTION OF STUDENT APPLICATION (BY ALTERNATIVE)

TOTAL ENROLLMENT BY GENDER

<table>
<thead>
<tr>
<th>Year</th>
<th>Female</th>
<th>Male</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016-2017</td>
<td>7</td>
<td>2</td>
</tr>
<tr>
<td>2017-2018</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>2018-2019</td>
<td>7</td>
<td>1</td>
</tr>
<tr>
<td>2019-2020</td>
<td>2</td>
<td>1</td>
</tr>
</tbody>
</table>

Articulated Transfer Program UPR-Mayagüez toward Bachelor of Science in Nursing
Articulated Transfer Program
UPR-Mayagüez toward Bachelor of Science in Chemical
Natural Sciences Department Dashboard
Articulated Transfer Program UPR-Mayagüez toward Bachelor of Science in Chemical

FRESHMAN DISTRIBUTION

RETENTION BY ACADEMIC PROGRAM

TOTAL ENROLLMENT DISTRIBUTION

TOTAL ENROLLMENT OF PART-TIME AND FULL-TIME STUDENTS

Year | Part-Time | Full-Time
--- | --- | ---
2016-2017 | 17 | 11
2017-2018 | 4 | 0
2018-2019 | 0 | 0
2019-2020 | 15 | 0

Year | Part-Time | Full-Time
--- | --- | ---
2016-2017 | 29 | 0
2017-2018 | 34 | 0
2018-2019 | 24 | 1
2019-2020 | 0 | 0

Year | Retention
--- | ---
2016-2017 | 100.0%
2017-2018 | 88.0%
2018-2019 | 100.0%
TOTAL ENROLLMENT BY GENDER

DISTRIBUTION OF STUDENT APPLICATION (BY ALTERNATIVE)

- Third Alternative
- Second Alternative
- First Alternative