1-1959

Ursinus College Catalogue for the Ninetieth Academic Year, 1959-1960

Office of the Registrar

Ursinus College

Follow this and additional works at: https://digitalcommons.ursinus.edu/uccatalog

Part of the Higher Education Commons, and the United States History Commons

Click here to let us know how access to this document benefits you.

Recommended Citation

https://digitalcommons.ursinus.edu/uccatalog/19

This Book is brought to you for free and open access by the Ursinusiana Collection at Digital Commons @ Ursinus College. It has been accepted for inclusion in Ursinus College Catalogues by an authorized administrator of Digital Commons @ Ursinus College. For more information, please contact aprock@ursinus.edu.
Ursinus College is located in Collegeville, a borough in Montgomery County, Pennsylvania, twenty-five miles northwest of Philadelphia. U. S. Route 422 and Pennsylvania State Highway 29 intersect at Collegeville. It may be reached from Philadelphia by means of trains of the Pennsylvania, Reading, or Philadelphia and Western (69th Street Terminal) railroads to Norristown, Pennsylvania, from where buses leave for Collegeville.
THE
URSINUS COLLEGE
BULLETIN

Catalogue Number
FOR THE
Ninetieth Academic Year
1959-1960

Collegeville, Pennsylvania
January, 1959
CORRESPONDENCE WITH UR SINUS COLLEGE

Communications with the College should be addressed to the appropriate administrative officer.

GENERAL COLLEGE MATTERS
The President

ACADEMIC STANDING OF STUDENTS AND REQUESTS FOR TRANSCRIPTS
The Dean

ADMISSIONS, SCHOLARSHIPS, SUMMER SCHOOL
The Director of Admissions

EVENING SCHOOL
The Director of the Evening School

PAYMENT OF BILLS
The Treasurer's Office

STUDENT EMPLOYMENT
The Director of Student Employment

PLACEMENT OF GRADUATES
The Director of Placement

SOCIAL REGULATIONS AND DORMITORIES FOR MEN
The Dean of Men

SOCIAL REGULATIONS AND DORMITORIES FOR WOMEN
The Dean of Women

ALUMNI AFFAIRS
The Alumni Secretary

The Post Office address is Collegeville, Pennsylvania.

The College telephone number is Huxley 9-3311

Visitors to the College are welcome. Student guides are available when the College is in session. The offices of the College are open Monday through Friday 9-12 and 1-5 and on Saturdays 9-12. The Office of Admissions will be closed on Saturdays from June 15 to Labor Day. Applicants for admission are expected to write for an appointment.

Information regarding public transportation and highway routes to Collegeville will be found below the map on the inside of the cover of the Catalogue.
# Table of Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>The College Calendar for 1959-1960</td>
<td>5</td>
</tr>
<tr>
<td>The Directors</td>
<td>6</td>
</tr>
<tr>
<td>The Administration</td>
<td>8</td>
</tr>
<tr>
<td>The Faculty</td>
<td>10</td>
</tr>
<tr>
<td>Historical Sketch</td>
<td>16</td>
</tr>
<tr>
<td>College Activities</td>
<td>19</td>
</tr>
<tr>
<td>Buildings and Equipment</td>
<td>21</td>
</tr>
<tr>
<td>Admission</td>
<td>25</td>
</tr>
<tr>
<td>Expenses</td>
<td>32</td>
</tr>
<tr>
<td>General Information</td>
<td>35</td>
</tr>
<tr>
<td>Scholarships, Prizes, and Aid to Students</td>
<td>39</td>
</tr>
<tr>
<td>The Educational Program</td>
<td>49</td>
</tr>
<tr>
<td>Courses of Instruction</td>
<td>51</td>
</tr>
<tr>
<td>Departmental Requirements</td>
<td>92</td>
</tr>
<tr>
<td>Prizes, Honors and Degrees</td>
<td>98</td>
</tr>
<tr>
<td>List of Students, 1958 - 1959</td>
<td>101</td>
</tr>
<tr>
<td>Index</td>
<td>112</td>
</tr>
</tbody>
</table>
## The Calendar for 1959-1960

### 1959

#### JANUARY

<table>
<thead>
<tr>
<th>S</th>
<th>M</th>
<th>T</th>
<th>W</th>
<th>T</th>
<th>F</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>3</td>
<td></td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
</tr>
<tr>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
</tr>
<tr>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
</tr>
<tr>
<td>29</td>
<td>30</td>
<td>31</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### FEBRUARY

<table>
<thead>
<tr>
<th>S</th>
<th>M</th>
<th>T</th>
<th>W</th>
<th>T</th>
<th>F</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
</tr>
<tr>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
</tr>
<tr>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
</tr>
<tr>
<td>29</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### MARCH

<table>
<thead>
<tr>
<th>S</th>
<th>M</th>
<th>T</th>
<th>W</th>
<th>T</th>
<th>F</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
</tr>
<tr>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
</tr>
<tr>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
</tr>
<tr>
<td>29</td>
<td>30</td>
<td>31</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### APRIL

<table>
<thead>
<tr>
<th>S</th>
<th>M</th>
<th>T</th>
<th>W</th>
<th>T</th>
<th>F</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
</tr>
<tr>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
</tr>
<tr>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
</tr>
<tr>
<td>29</td>
<td>30</td>
<td>31</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### MAY

<table>
<thead>
<tr>
<th>S</th>
<th>M</th>
<th>T</th>
<th>W</th>
<th>T</th>
<th>F</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
</tr>
<tr>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
</tr>
<tr>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
</tr>
<tr>
<td>29</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### JUNE

<table>
<thead>
<tr>
<th>S</th>
<th>M</th>
<th>T</th>
<th>W</th>
<th>T</th>
<th>F</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
</tr>
<tr>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
</tr>
<tr>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
</tr>
<tr>
<td>29</td>
<td>30</td>
<td>31</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### JULY

<table>
<thead>
<tr>
<th>S</th>
<th>M</th>
<th>T</th>
<th>W</th>
<th>T</th>
<th>F</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
</tr>
<tr>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
</tr>
<tr>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
</tr>
<tr>
<td>29</td>
<td>30</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 1960

#### JANUARY

<table>
<thead>
<tr>
<th>S</th>
<th>M</th>
<th>T</th>
<th>W</th>
<th>T</th>
<th>F</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
</tr>
<tr>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
</tr>
<tr>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
</tr>
<tr>
<td>29</td>
<td>30</td>
<td>31</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### FEBRUARY

<table>
<thead>
<tr>
<th>S</th>
<th>M</th>
<th>T</th>
<th>W</th>
<th>T</th>
<th>F</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
</tr>
<tr>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
</tr>
<tr>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
</tr>
<tr>
<td>29</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### MARCH

<table>
<thead>
<tr>
<th>S</th>
<th>M</th>
<th>T</th>
<th>W</th>
<th>T</th>
<th>F</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
</tr>
<tr>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
</tr>
<tr>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
</tr>
<tr>
<td>29</td>
<td>30</td>
<td>31</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### APRIL

<table>
<thead>
<tr>
<th>S</th>
<th>M</th>
<th>T</th>
<th>W</th>
<th>T</th>
<th>F</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
</tr>
<tr>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
</tr>
<tr>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
</tr>
<tr>
<td>29</td>
<td>30</td>
<td>31</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### MAY

<table>
<thead>
<tr>
<th>S</th>
<th>M</th>
<th>T</th>
<th>W</th>
<th>T</th>
<th>F</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
</tr>
<tr>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
</tr>
<tr>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
</tr>
<tr>
<td>29</td>
<td>30</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### JUNE

<table>
<thead>
<tr>
<th>S</th>
<th>M</th>
<th>T</th>
<th>W</th>
<th>T</th>
<th>F</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
</tr>
<tr>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
</tr>
<tr>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
</tr>
<tr>
<td>29</td>
<td>30</td>
<td>31</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### JULY

<table>
<thead>
<tr>
<th>S</th>
<th>M</th>
<th>T</th>
<th>W</th>
<th>T</th>
<th>F</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
</tr>
<tr>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
</tr>
<tr>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
</tr>
<tr>
<td>29</td>
<td>30</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### AUGUST

<table>
<thead>
<tr>
<th>S</th>
<th>M</th>
<th>T</th>
<th>W</th>
<th>T</th>
<th>F</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
</tr>
<tr>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
</tr>
<tr>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
</tr>
<tr>
<td>29</td>
<td>30</td>
<td>31</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### SEPTMBER

<table>
<thead>
<tr>
<th>S</th>
<th>M</th>
<th>T</th>
<th>W</th>
<th>T</th>
<th>F</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
</tr>
<tr>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
</tr>
<tr>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
</tr>
<tr>
<td>29</td>
<td>30</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### DECEMBER

<table>
<thead>
<tr>
<th>S</th>
<th>M</th>
<th>T</th>
<th>W</th>
<th>T</th>
<th>F</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
</tr>
<tr>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
</tr>
<tr>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
</tr>
<tr>
<td>29</td>
<td>30</td>
<td>31</td>
<td>32</td>
<td>33</td>
<td>34</td>
<td>35</td>
</tr>
<tr>
<td>Month</td>
<td>Day</td>
<td>Event</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------</td>
<td>---------</td>
<td>----------------------------------------------------------------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January</td>
<td>5</td>
<td>Monday Christmas Recess ends, 8:00 A.M.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January</td>
<td>22</td>
<td>Thursday First Semester examinations begin</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January</td>
<td>30</td>
<td>Friday First Semester ends, 5:30 P.M.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>February</td>
<td>9</td>
<td>Monday Second Semester begins, 8:00 A.M.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>February</td>
<td>28</td>
<td>Monday Last Day for filing Open Scholarship Applications</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>March</td>
<td>26</td>
<td>Thursday Spring Recess begins, 5:30 P.M.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>April</td>
<td>6</td>
<td>Monday Spring Recess ends, 8:00 A.M.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>May</td>
<td>28</td>
<td>Thursday Second Semester examinations begin</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>June</td>
<td>5</td>
<td>Friday Second Semester examinations end</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>June</td>
<td>7</td>
<td>Saturday Alumni Day</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>June</td>
<td>8</td>
<td>Monday Baccalaureate Service, 10:45 A.M.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>July</td>
<td>6</td>
<td>Friday Summer Session begins, 8:00 A.M.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>August</td>
<td>28</td>
<td>Friday Registration of new students</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>September</td>
<td>28</td>
<td>Monday Freshman Program begins, Registration of new students</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>September</td>
<td>30</td>
<td>Wednesday First Semester begins, 8:00 A.M.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>November</td>
<td>25</td>
<td>Wednesday Thanksgiving Recess begins, 5:30 P.M.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>November</td>
<td>30</td>
<td>Monday Thanksgiving Recess ends, 8:00 A.M.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>December</td>
<td>18</td>
<td>Friday Christmas Recess begins, 5:30 P.M.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1960</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January</td>
<td>4</td>
<td>Monday First Semester begins, 8:00 A.M.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January</td>
<td>21</td>
<td>Thursday First semester ends, 5:30 P.M.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January</td>
<td>29</td>
<td>Friday Second Semester begins, 8:00 A.M.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>February</td>
<td>8</td>
<td>Monday Last Day for filing Open Scholarship Applications</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>March</td>
<td>1</td>
<td>Tuesday Spring Recess begins, 5:30 P.M.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>March</td>
<td>25</td>
<td>Friday Spring Recess ends, 8:00 A.M.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>April</td>
<td>4</td>
<td>Monday Good Friday, No classes</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>April</td>
<td>15</td>
<td>Friday Second Semester examinations begin</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>May</td>
<td>26</td>
<td>Thursday Second Semester examinations end</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>June</td>
<td>3</td>
<td>Friday Alumni Day</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>June</td>
<td>4</td>
<td>Saturday Baccalaureate Service, 10:45 A.M.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>June</td>
<td>6</td>
<td>Monday Commencement, 11:00 A.M.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>July</td>
<td>11</td>
<td>Monday Summer Session begins, 8:00 A.M.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>September</td>
<td>2</td>
<td>Friday Summer Session ends, 5:30 P.M.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>September</td>
<td>26</td>
<td>Monday Freshman Program begins, Registration of new students</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>September</td>
<td>28</td>
<td>Wednesday First Semester begins, 8:00 A.M.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
The Directors

<table>
<thead>
<tr>
<th>Name</th>
<th>First Elected</th>
<th>Term Expires</th>
</tr>
</thead>
<tbody>
<tr>
<td>REV. Titus A. Alspach, D.D., Lancaster</td>
<td>1925</td>
<td>1960</td>
</tr>
<tr>
<td>Lillian Isenberg Bahney, B.A., Myerstown</td>
<td>1951</td>
<td>1961</td>
</tr>
<tr>
<td>Charles A. Behney, M.D., Lansing, Michigan</td>
<td>1937</td>
<td>1962</td>
</tr>
<tr>
<td>Samuel C. Bond, Jr., B.A., Orefield</td>
<td>1952</td>
<td>1962</td>
</tr>
<tr>
<td>Walter R. Douthett, M.A., Margate City, N. J.</td>
<td>1936</td>
<td>1961</td>
</tr>
<tr>
<td>Sherman A. Eger, M.D., Cynwyd</td>
<td>1949</td>
<td>1959</td>
</tr>
<tr>
<td>Thomas P. Glassmoyer, B.S., LL.B., Willow Grove</td>
<td>1956</td>
<td>1961</td>
</tr>
<tr>
<td>Donald L. Helfferich, B.A., LL.B., LL.D., Collegeville</td>
<td>1927</td>
<td>1962</td>
</tr>
<tr>
<td>Evelyn Glazier Henzel, M.A., Glenside</td>
<td>1950</td>
<td>1960</td>
</tr>
<tr>
<td>Rev. Merritt J. Jeffers, M.S., B.D., D.D., Myerstown</td>
<td>1953</td>
<td>1963</td>
</tr>
<tr>
<td>Rhea Duryea Johnson, B.A., Litt.D., Philadelphia</td>
<td>1928</td>
<td>1963</td>
</tr>
<tr>
<td>Robert L. Johnson, LL.D., Philadelphia</td>
<td>1947</td>
<td>1962</td>
</tr>
<tr>
<td>Charles Lachman, LL.D., Bryn Mawr</td>
<td>1949</td>
<td>1959</td>
</tr>
<tr>
<td>Stewart E. Lauer, B.S., LL.D. York</td>
<td>1953</td>
<td>1963</td>
</tr>
<tr>
<td>D. Sterling Light, B.A., Nottstown</td>
<td>1947</td>
<td>1962</td>
</tr>
<tr>
<td>Charles H. Noss, LL.D., York</td>
<td>1944</td>
<td>1959</td>
</tr>
<tr>
<td>Harry E. Paisley, LL.D., Philadelphia</td>
<td>1907</td>
<td>1962</td>
</tr>
<tr>
<td>Charles V. Roberts, B.S., Drexel Hill</td>
<td>1956</td>
<td>1961</td>
</tr>
<tr>
<td>George L. Thomas, Jr., B.A., D.C.S., Lilypons, Md.</td>
<td>1951</td>
<td>1961</td>
</tr>
<tr>
<td>Clarence A. Warden, Jr., LL.D., Philadelphia</td>
<td>1957</td>
<td>1962</td>
</tr>
<tr>
<td>Ralph F. Wismer, Esq., B.A., LL.D., Collegeville</td>
<td>1938</td>
<td>1963</td>
</tr>
<tr>
<td>Harleston R. Wood, B.A., Conshohocken</td>
<td>1956</td>
<td>1961</td>
</tr>
</tbody>
</table>

* Died, December 14, 1958.
COMMITTEES OF THE BOARD OF DIRECTORS


Committee on Instruction: D. L. Helfferich, N. E. McClure, R. L. Johnson, Chester Robbins, Charles V. Roberts


OFFICERS OF THE CORPORATION

President: Harry E. Paisley, Philadelphia.
First Vice-President: William D. Reimert, Allentown.
Second Vice-President: Rev. W. Sherman Kerschner, Philadelphia.
Secretary: Ralph F. Wismer, Collegeville.
Assistant Secretary: D. Sterling Light, Norristown.
Treasurer: Ralph F. Wismer, Collegeville.
The Administration

DONALD L. HELFFERICH, B.A., LL.B., LL.D., President

CHARLES LACHMAN, LL.D., Vice-President

WILLIAM S. PETTIT, M.S., Dean

GEOFFREY DOLMAN, M.A., Director of Admissions

H. LLOYD JONES, JR., M.A., Assistant Director of Admissions

ALLAN L. RICE, PH.D., Assistant to the Director of Admissions

WILLIAM J. PHILLIPS, PH.D., Director of the Evening School

REV. ALFRED L. CREAGER, B.S., B.D., D.D., College Chaplain

G. SIEBER PANCOAST, PH.D., Dean of Men

MISS CAMILLA B. STAHR, B.A., LITT.D., Dean of Women

CALVIN D. YOST, JR., Ph.D., Librarian

RALPH F. WISMER, ESQ., B.A., LL.D., Treasurer

JAMES R. RUE, Manager, Treasurer's Office

JAMES A. MINNICH, M.A., Director of Placement

EVERETT M. BAILEY, M.A., Director of Athletics

CHARLES D. MATTERN, PH.D., Director of Student Employment

EDWARD H. PLATTE, M.D., College Physician

MISS HELEN M. MOLL, R.N., Resident Nurse

RUSSELL L. REMIG, CH.E., Superintendent of Buildings

WILLIAM S. FRIEDEBORN, B.A., Manager of the Supply Store

ROGER P. STAIGER, PH.D., Alumni Secretary

JOSEPH P. LYNCH, Steward
THE ADMINISTRATION

THE ADMINISTRATIVE STAFF

Residents
MR. J. DOUGLAS DAVIS, M.A., Curtis Hall
MR. H. LLOYD JONES, JR., M.A., Fetterolf House
REV. RICHARD T. SCHELLHASE, B.A., B.D., Derr Hall

Preceptresses
MRS. G. HENRY SHRYOCK, Hobson Hall
MRS. A. E. SCHELLHASE, 646 Main Street
MRS. PAUL E. TOWERS, Paisley Hall
MRS. CLOYD A. HAZLETT, Clamer Hall
MRS. JOHN H. McCANDLESS, Stauffer Hall
MRS. LAWRENCE H. PEARSON, B.S., Beardwood Hall
MRS. C. DAVID HUDNUT, B.S., Shreiner Hall
MRS. ROBERT R. MACMURRAY, B.A., Duryea Hall
MRS. WALTER W. PRIZER, 944 Main Street
MRS. W. U. HELFFERICH, B.Litt., 942 Main Street

Library
MRS. ROGER P. STAIGER, B.A.
MISS ETHEL KAY KERPER, B.A., M.S. in L.S.

Assistants
MR. WALLACE D. ANGSTADT, Treasurer’s Office
MR. FREDERICK WENTZ, Treasurer’s Office
MRS. Verna Schushnar, R.N., Assistant Resident Nurse
MR. HOWARD W. SCHULTZE, Assistant to the Superintendent of Buildings

Secretaries
MRS. MARY S. STEELE, President’s Office
MRS. H. ARNOLD SMITH, Dean’s Office
MRS. B. A. YANKOLONIS, Dean’s Office
MISS AGNES J. DONAHUE, B.A., Office of Admissions
MRS. CHARLES E. STOVER, Office of Admissions
MRS. ELWOOD W. ADAMS, Placement Office
MRS. MAURICE O. BONE, Alumni Office
MRS. HORACE E. GODSHALL, Alumni Office
The Faculty, 1958-1959*

DONALD LAWRENCE HELFFERICH, A.B., LL.B., LL.D., President
B.A., Ursinus College; LL.B., Yale University School of Law; LL.D., Ursinus College.

NORMAN EGBERT MCCLURE, Ph.D., Litt.D., LL.D., L.H.D., President, Emeritus; Professor of English, Emeritus
B.A., Ursinus College; M.A., Pennsylvania State University; Ph.D., University of Pennsylvania; Litt.D., Pennsylvania Military College, Drexel Institute of Technology; LL.D., Temple University; L.H.D., Franklin and Marshall College.

WILLIAM SCHUYLER PETTIT, M.S., Dean; Professor of Chemistry
B.S. in Chem., M.S., University of Pennsylvania.

JOHN WENTWORTH CLAWSON, M.A., Sc.D., Dean, Emeritus; Professor of Mathematics, Emeritus
B.A., M.A., University of New Brunswick; B.A., Cambridge University; Sc.D., Ursinus College.

ELIZABETH BRETT WHITE, Ph.D., Professor of History, Emeritus
B.A., Cornell University; M.A., University of Wisconsin; Ph.D., Clark University.

CHARLES LYON CHANDLER, B.A., LL.D., Professor of Political Science, Emeritus
B.A., Harvard University; LL.D., University of Porto Alegre; LL.D., University of Bogota.

HARVEY ROSEN VANDERSLICE, M.A., Ped.D., Professor of Education, Emeritus
B.A., Ursinus College; M.A., University of Pennsylvania; Ped.D., Ursinus College.

JAMES LANE BOSWELL, Ph.D., Professor of Economics
B.A., Georgetown College; M.A., Ph.D., University of Pennsylvania.

RUSSELL DAVIS STURGIS, Ph.D., David Laucks Hain Professor of Chemistry
B.A., University of Delaware; M.S., Ph.D., University of Pennsylvania.

GEORGE RUSSELL TYSON, Ph.D., Professor of Psychology and Education
B.S., M.A., Ph.D., University of Pennsylvania.

MAURICE OBERLIN BONE, B.C.S., Professor of Economics
B.C.S., Northwestern University.

* Listed in order of appointment to present rank; appointments of the same year are listed alphabetically.
Frank Leroy Manning, Ph.D., Professor of Mathematics
B.S., Cornell University; M.S., Rutgers University; Ph.D., Cornell University.

Donald Gay Baker, Ph.D., Professor of Greek
B.A., Haverford College; M.A., Ph.D., Harvard University.

George Wellington Hartzell, Ph.D., Professor of German
B.A., Lehigh University; M.A., Ph.D., University of Pennsylvania.

Calvin Daniel Yost, Jr., Ph.D., Librarian, Professor of English
B.A., Ursinus College; M.A., Ph.D., University of Pennsylvania.

Maurice Whitman Armstrong, S.T.M., Ph.D., Professor of History
B.A., M.A., Dalhousie University; B.D., Pine Hill Divinity Hall; S.T.M., Ph.D., Harvard University.

Paul Raymond Wagner, Ph.D., J. Harold Brownback Professor of Biology
B.S., Ursinus College; M.S., Ph.D., University of Pennsylvania.

Everett Martin Bailey, M.A., Director of Athletics; Professor of Physical Education
B.P.E., B.S., Springfield College; M.A., Columbia University.

John Jacob Heilemann, Ph.D., Professor of Physics
B.A., M.A., Ph.D., University of Pennsylvania.

Charles David Mattern, Ph.D., Professor of Philosophy
B.S., Ursinus College; Ph.D., University of Pennsylvania.

Eugene Herbert Miller, Ph.D., Professor of Political Science
B.A., Ursinus College; M.A., Ph.D., Clark University.

William Franklin Philip, Mus. Doc., Professor of Music

Foster Leroy Dennis, Ph.D., Professor of Mathematics
B.S., Ursinus College; M.A., Cornell University; Ph.D., University of Illinois.

William John Phillips, Ph.D., Professor of English
B.A., M.A., Ph.D., University of Pennsylvania.

Alfred Miles Wilcox, M.A., Professor of French
B.A., Wesleyan University; M.A., Brown University.

Eleanor Frost Snell, M.A., Professor of Physical Education
B.A., University of Nebraska; M.A., Columbia University.

Allan Lake Rice, Ph.D., Assistant to the Director of Admissions; Professor of German
B.A., M.A., Ph.D., University of Pennsylvania.
Helen Thompson Garrett, Ph.D., Professor of French
B.A., Swarthmore College; Diplome, University of Lille; Ph.D., University of Pennsylvania.

Garfield Sieber Pancoast, Ph.D., Dean of Men; Professor of Political Science
B.S., Ursinus College; M.A., Ph.D., University of Pennsylvania.

Mark Guy Messinger, Ed.D., Professor of Education
B.A., Ursinus College; M.A., University of Pennsylvania; Ed.D., Temple University.

James Allan Minnich, M.A., Director of Placement and Professor of Education
B.S., M.A., University of Pennsylvania.

Levie van Dam, Ph.D., Professor of Biology
B.S., M.S., Ph.D., Groningen State University, Holland.

Alfred Leon Creager, B.S., B.D., D.D., Chaplain; Associate Professor of the History of the Christian Church
B.S., Ursinus College; B.D., The Theological Seminary, Lancaster; D.D., Ursinus College.

Raymond Victor Gurzynski, M.Ed., Associate Professor of Physical Education
B.S., Ursinus College; M.Ed., Temple University.

Geoffrey Dolman, M.A., Director of Admissions; Associate Professor of English
B.A., M.A., University of Pennsylvania.

Roger Powell Staiger, Ph.D., Associate Professor of Chemistry
B.S., Ursinus College; M.S., Ph.D., University of Pennsylvania.

Richard Mumma Fletcher, Ph.D., Associate Professor of Psychology
B.A., Franklin and Marshall College; Ph.D., Pennsylvania State University.

George Gilbert Storey, Ph.D., Associate Professor of English

*Kuhrt Wieneke, M.S., Assistant Professor of Physical Education
B.A., Thiel College; B.P.E., Springfield College; M.S., Pennsylvania State University.
THE FACULTY, 1958-1959

JAMES DOUGLAS DAVIS, M.A., Assistant Professor of History
B.A., Ursinus College; M.A., University of Pennsylvania.

BLANCHE BEATRICE SCHULTZ, M.S., Assistant Professor of Mathematics
B.S., Ursinus College; M.S., University of Michigan.

EVAN SAMUEL SNYDER, Ph.D., Assistant Professor of Physics
B.S., Ursinus College; M.S., Ph.D., University of Pennsylvania.

HOWARD LLOYD JONES, JR., M.A., Assistant Director of Admissions; Assistant Professor of English
B.A., University of Delaware; M.A., University of Pennsylvania.

AMMON GEORGE KERSHNER, JR., Ph.D., Assistant Professor of English
B.S., M.S., M.A., Ph.D., University of Pennsylvania.

WALTER WOODROW MARSTELLER, B.S., Assistant Professor of Physics
B.S., Ursinus College.

ELIZABETH READ FOSTER, PH.D., Assistant Professor of History
B.A., Vassar College; M.A., Columbia University; Ph.D., Yale University.

ALFRED D. ROBERTS, M.A., Assistant Professor of Romance Languages
B.A., Ursinus College; M.A., University of Pennsylvania.

HARRY CLAY SYMONS, M.A., Assistant Professor of Economics
B.A., M.A., Pennsylvania State University.

RICHARD TYSON SCHELLHAASE, B.A., B.D., Assistant Professor of Religion
B.A., Ursinus College; B.D., The Theological Seminary, Lancaster.

RAYMOND LOUIS RAFETTO, JR., B.S., M.A., Assistant Professor of Economics
B.S., Temple University; M.A., University of Pennsylvania

ROBERT CARRINGTON STEIN, PH.D., Assistant Professor of Biology
B.A., St. Olaf College; M.S., Ph.D., Cornell University.

DAVID WALTER BAKER, M.D., Assistant Professor of Religion
B.A., Coe College; Th.B., Princeton Theological Seminary; M.D., University of Pennsylvania.

DONALD HOLLY FORTNUM, PH.D., Assistant Professor of Chemistry
B.S., Carroll College; Ph.D., Brown University.

FREDERICK DONALD ZUCKER, PH.D., Assistant Professor of Political Science
B.A., Rutgers University; M.A., Ph.D., Pennsylvania State University.

JESSIE ASHWORTH MILLER, Ph.D., Lecturer in Sociology
B.A., University of Maine; M.A., Ph.D., Clark University.
Marian Gertrude Spangler, B.A., Instructor in Music
B.A., Ursinus College.
JenIPHER Price Shillingford, B.S., Instructor in Physical Education
B.S., Ursinus College.
Charles David Hudnut, B.A., Instructor in English
B.A., Ursinus College.
Robert Ross MacMurray, M.B.A., Instructor in Economics
B.A., Ursinus College; M.B.A., University of Pennsylvania.
David Brown Walker, M.A., Instructor in Economics
B.S., M.A., Temple University.
John Theodore Klock, M.Ed., Assistant in Physical Education
B.S., St. Francis College; M.Ed., Temple University.
Paul John Zdanowicz, M. Ed., Assistant in Physical Education
B.A., Bowdoin College; M. Ed., University of Maine.

OFFICERS OF THE FACULTY

Chairman, The President
Secretary, Professor Yost

ACADEMIC COUNCIL

The President
Professor Yost

The Dean
Professor Miller

Professor Wilcox

ADVISERS

Biology Department, Professor Wagner
Chemistry Department, Professor Sturgis
Classics Department, Professor Baker
Economics and Business Administration Department, Professor Boswell
Engineering, Professor Heilemann
English Department, Professor Yost
German Department, Professor Hartzell
Health and Physical Education, Professor Minnich
History Department, Professor Armstrong
Mathematics Department, Professor Manning
Physics Department, Professor Heilemann
Political Science Department, Professor Miller
Psychology Department, Professor Tyson
Romance Languages Department, Professor Wilcox

COMMITTEES

Admission and Standing: The President, Dean Pettit, Professor Yost, Professor Dolman, Professor Jones.

Library: The President, The Librarian, Professor Armstrong, Professor Sturgis.

Scholarships: The President, Dean Pettit, Professor Mattern, Professor Dolman, Professor Jones.

Discipline: Dean Pettit, Dean Stahr, Dean Pancoast, Professor Wilcox, Professor Dolman, Professor Sturgis, Professor Dennis.

Student Activities: Dean Pancoast, Professor Bone, Dean Stahr, The Chaplain, Professor Parsons, Professor Staiger.

Student Publications: Professor Mattern, Professor Bone, Professor Jones, Professor Schellhase, Mr. Hudnut.

Athletics: Professor Bailey, Dean Pancoast, Professor Dennis, Professor Schellhase.

Forum: Professor E. H. Miller, Professor Armstrong, Professor Yost.
Historical Sketch

The beginning of educational work on what is now the campus of Ursinus College dates back to the construction of a primitive schoolhouse built of logs probably two centuries ago. The ancient building was razed in 1832, when Todd's School was built in the town of Perkiomen Bridge, now Collegeville. In 1848 Freeland Seminary was opened on a tract adjacent to Todd's School. The new school occupied the buildings now known as Freeland Hall and Stine Hall. During the following two decades many hundreds of young men were educated here.

In 1867 a group of men, members of the German Reformed Church, actuated by a desire to serve the interests of higher education and of evangelical Christian religion, laid plans to establish a college where, to quote their words, young men could be "liberally educated under the benign influence of Christianity." They chose as the name of the College that of the distinguished sixteenth-century scholar and reformer, Zacharius Ursinus of the University of Heidelberg. In 1869 the charter was granted by the Legislature of Pennsylvania. The buildings of Freeland Seminary were bought, and instruction was begun on September 6, 1870. Women were admitted to the College for the first time in 1881.

Coincident with the founding of the College was the establishment of a preparatory department as a successor to Freeland Seminary. The preparatory school was called Ursinus Academy and was operated as such until 1910, when it was discontinued.

Although Ursinus College admits students of all faiths, the College has been since its founding a church-related college, related to the German Reformed Church, later known as the Reformed Church in the United States, from 1934 to 1957 known as the Evangelical and Reformed Church, and since 1957 known as the United Church of Christ.

College Principles

Ursinus College is a Christian, coeducational, liberal arts college which seeks to help the student to understand and to emulate excellence in scholarship and in conduct. Although in recent decades the College has extended its work to include the preparation of men and women for a variety of professions, the College continues to emphasize the fact that however varied and specialized the changing needs of the day, the fundamental needs of man remain constant. Each student, whatever his field of specialization, is required to study those subjects which are the core of our cultural heritage.
Ursinus recognizes its duty to preserve the cultural and spiritual tradition which this generation has inherited and to transmit this sense of duty to succeeding generations.

The College seeks to help the students to develop those qualities which will fit them for the extraordinary responsibilities of educated men and women. The purposes of the College are achieved through its curriculum, through the many extra-curricular activities, and through the pattern of campus life.

The whole educational program serves to cultivate a particular set of qualities in the students:

1. An active intellectual curiosity and a desire to learn
2. A knowledge of the techniques of sound scholarship
3. An ability to think logically and critically
4. A mature understanding of one's self, of others, and of society
5. An insight into our natural environment, and a knowledge of the laws governing it
6. An appreciation of our cultural inheritance
7. A sense of responsibility
8. Attitudes consonant with the Christian ideal of morality and service

Ursinus College regards its educational task as a cooperative quest for complete Christian living. To this end, the purpose of the College, with its resources of equipment, curriculum and personnel, is conceived to be the development of those ideas, ideals, attitudes, habits, and skills in each student which will make for his creative and effective participation in the modern world.

I. Intellectual To stimulate active intellectual curiosity, to encourage scholarly habits and creative effort, and to provide for the integration of knowledge in such a way as to insure for each individual a working philosophy of life.

II. Cultural To quicken interest in the great achievements of humanity, to enlarge understanding of the arts and sciences, and to enhance appreciation of spiritual values.

III. Vocational To develop in the student versatility and adaptability, to help him find his appropriate lifework, and to provide
him with such special preparation as will be in harmony with the general cultural aims of the College.

IV. *Health*  To provide such a system of instruction and activity as will guide each student in developing for himself an adequate life program of physical and mental health.

V. *Social*  To help each student to become conscious of his obligation to the social group, and to provide such training and participation as will fit him for creative and intelligent service in life.

VI. *Character*  To utilize all the resources of the College in the development of positive Christian character.

**CULTURAL ENVIRONMENT**

Students at Ursinus have all the advantages of living in the country, and at the same time they are close enough to New York and Philadelphia to have access to such additional opportunities for culture as the symphony orchestra, grand opera, legitimate theatres, museums, lectures, and exhibits.

Ursinus is located in the heart of a region which is rich in historical tradition. In Colonial days this region was the center of the cultural and political development of America.

**ACCREDITATION**

Ursinus is a member of the Association of American Colleges, and is on the approved list of the Middle States Association of Colleges and Secondary Schools, the American Association of University Women, and the American Chemical Society.
College Activities

ATHLETICS

URSINUS recognizes the physical and moral benefit derived from athletic activity and accordingly offers a well-balanced sports program open to all. Intercollegiate competition is encouraged in football, basketball (varsity and junior varsity), soccer, wrestling, baseball, track and tennis. In addition to this intercollegiate program intramural games are played. Intramural athletics for men include league competition in touch football, basketball, and softball, and an elimination tournament in tennis.

For women students, the College supports intercollegiate competition in hockey (varsity and junior varsity), basketball (varsity and junior varsity), softball, tennis, swimming, and lacrosse. The intramural program provides voluntary recreation in hockey, basketball, tennis and softball.

The gymnasiums, playing fields, and equipment available for the pursuit of these various activities are described under Buildings and Equipment. (See pp. 21 to 23).

ORGANIZATIONS

A large number of organizations provide numerous and varied facilities of extra-curricular activity. All such organizations are approved by the Faculty and are supervised by the Committee on Student Activities or the Dean of Men and Dean of Women. In addition various members of the Faculty serve these groups as advisers. Student life on campus is regulated and controlled by the Men's Student Council and the Women's Student Government Association under the direction of the Dean of Men and the Dean of Women. Members of the student governing organizations are elected by the student body.

One of the most active organizations is the Young Men's and Young Women's Christian Association of which every student is nominally a member. Numerous religious and social activities are planned and sponsored by this group in collaboration with other campus groups. Allied religious and service groups are the Chi Alpha Society for those students planning to enter the ministry or other religious work, the Lutheran Student Association, the Canterbury Club, and the Newman Club.

Other organizations stimulate the interest of students in particular areas of study or in future occupations: the Anders-Brownback Pre-Medical Society, the Beardwood Chemical Society, the English Club, the French Club, the Pre-Legal Society, the Future Teachers of America, and the Business Administration Club. Interest in athletics and campus
spirit is fostered by the Women's Athletic Association, the Varsity Club, and the Spirit Committee. A chapter of the Honorary Social Studies Society, Pi Gamma Mu, has been established.

A large and varied program of dramatics is sponsored and carried out by the Curtain Club, which presents two major productions a year in addition to various group productions. There is at Ursinus a chapter of Alpha Psi Omega, a national honorary dramatic fraternity.

The Debating Club each year holds intercollegiate and intramural debates on topics of national interest. Members may qualify for election to Tau Kappa Alpha, the national honorary debating fraternity.

Music plays a large part in the life at Ursinus. The College Choir, the Glee Club, the Band, and the Music Club all serve to encourage an interest in good music. One of the outstanding musical events of the year is the traditional rendering of Handel's Messiah each year during the Christmas season.

There are eleven local social organizations on the Ursinus campus. The fraternities are Sigma Rho Lambda, Zeta Chi, Alpha Phi Epsilon, Delta Mu Sigma, Beta Sigma Lambda, and Delta Pi Sigma. The sororities are Omega Chi, Alpha Sigma Nu, Kappa Delta Kappa, Phi Alpha Psi, and Tau Sigma Gamma.

**PUBLICATIONS**

The Ursinus Bulletin, of which the Catalogue is a number, is the official publication of the College. It is issued five times a year.

The Alumni Journal, the official publication of the Alumni Association, appears three times a year.

The Ursinus Weekly is the Ursinus newspaper. It is managed by a Board of Control consisting of student and faculty representatives and is edited and written entirely by the students. The Editor-in-Chief, the associate editors, and the business manager are elected by the board on the basis of merit and the staff is selected by the editors on the same basis. The paper appears each week and is of interest to students and alumni as a record of life at Ursinus.

The Lantern serves as an outlet for those interested in creative writing and art. It is written and edited by an all-student staff under the direction of a member of the Faculty Committee on Student Publications. It is published three times a year.

The Ruby, the Ursinus yearbook, is published by the Senior Class each year. It is a volume presenting an intimate pictorial account of the year's activities, not only of the Class, but of the entire College.
Buildings and Equipment

Bomberger Memorial Hall, named for J. H. A. Bomberger, President of Ursinus College, 1870-1890, is a large and imposing structure in the Romanesque style of architecture, built of Pennsylvania blue marble. This building is for the use of the departments of language and literature, the social sciences, history, philosophy, religion, public speaking, and music. In it are the chapel, twelve classrooms, six conference rooms, a seminar room, two music studios, two studies for day students, a recreation room, the student lounge, and the offices of the Dean, the Dean of Men, the Director of Admissions, the Treasurer, the Director of Student Teaching and Placement, and the Director of Student Employment. The erection of Bomberger Hall was made possible by the benefactions of the late Robert Patterson.

Pfaehler Hall of Science, erected in 1932, and named in honor of Dr. George E. Pfahler, is a stone and concrete building. The first floor and basement are devoted to work in psychology, education, mathematics, and physics, the second floor to biology, and the third floor to chemistry. The building contains the offices of the President and Vice-President, the Levi Jay Hammond Laboratory of Comparative Anatomy, the W. Wayne Babcock Laboratory of General Biology, the Anna Heinly Schellhamer Laboratory, the Schellhamer Laboratory, nine other teaching laboratories, two laboratories for research, nine professors' laboratories and offices, seven classrooms, a lecture hall with gallery and projection booth, and a library. The building is equipped with a deck for astronomical observation, on which is mounted the Elihu Thomson Memorial Telescope.

The Alumni Memorial Library contains reading rooms, offices of the library staff, seminar rooms, workroom, faculty and directors' room, stacks, vaults containing rare books and manuscripts, music room, and the Shaw-Bernard (Museum) Collection of curios and objets d'art.

The Library collection of 50,000 volumes, exclusive of government documents and pamphlets, has been selected to serve the needs of the liberal arts college. The Library receives over 200 periodicals and newspapers. The location of Ursinus College in the Philadelphia area makes
available for special studies the considerable bibliographical holding of neighboring libraries through personal consultation or inter-library loan.

The Thompson-Gay Gymnasium, built in 1927, occupies a convenient position adjoining Patterson Field and John B. Price Field. It is built of native brownstone, structural steel, and concrete. It contains a playing-floor, a gallery for spectators, locker rooms, shower rooms, coaches' offices, and storage rooms. At one end of the main floor is a completely equipped theatrical stage. Portable seating constitutes a part of the equipment of the building. This building is a memorial to Robert W. Thompson, '12, and George H. Gay, '13, noted Ursinus athletes, both of whom died in their senior year at the College.

The College Gymnasium, erected in 1947, is located near the Thompson-Gay Gymnasium and Price Field. It contains a large basketball court, two single handball courts, seating for 800 spectators, two dressing and shower rooms for players, a dressing room for officials, and storage rooms.

Superhouse, a residence on Main Street opposite the campus, was bequeathed to the College by the late Henry W. Super, D.D., LL.D., Vice-President and Professor of Mathematics, 1870-1891, and President, 1892-1893.

Sprankle Hall, on the east campus fronting Fifth Avenue, is the infirmary.

Patterson Field, named for Robert Patterson, first benefactor of the College, contains the varsity football field, space for competition in field events, and a quarter mile track with a 220 yard straightaway. The steel grandstand provides seating for 1440 spectators.

Price Field, named for Dr. John B. Price, '05, one of the great athletes in Ursinus history, contains the soccer field, the baseball diamond, several softball fields, and football practice ground.

The Tennis Courts are at the rear of Curtis Dormitory.

The Effie Brant Evans Hockey Field is located on the east campus near Stauffer Hall.
BUILDINGS AND EQUIPMENT

The Eger Gateway, erected by the generosity of George P. Eger, of Reading, Pennsylvania, stands at the entrance of the walk leading from Main Street to Freeland Hall.

Post Office and Supply Store. A Post Office is maintained on the campus for the convenience of students. Adjacent to the Post Office is the Supply Store, in which are sold text books, college jewelry, stationery, confections, and students’ supplies.

Dormitories for Men

Freeland Hall, erected in 1848, is the original building of Freeland Seminary. Derr Hall and Stine Hall are additions to Freeland Hall. The buildings are of stone, four stories in height with a fifth story of dormer rooms. On the two lower floors are the four dining rooms, the kitchen, storage and refrigeration rooms, and the office of the steward. The upper floors are for the residence of men students. The rooms are designed for one or two occupants, a number being arranged en suite.

The Brodbeck and Curtis Dormitories for Men are buildings in English Colonial style. Each building has four floors. They bear the names of esteemed benefactors of the College, Andrew R. Brodbeck and Cyrus H. K. Curtis.

Maples is a men’s residence hall located on Main Street, opposite the campus.

Fetterolf House, 554 Main Street, is a residence hall for men.

Fircroft, 930 Main Street, a residence for men students, was presented to the College by Miss Sara E. Ermold as a memorial to her mother, Ella N. Ermold.

Trinity Hall, familiarly known as South Hall, a residence for men, is located on Sixth Avenue.

724 Main Street is a residence for men students.
DORMITORIES FOR WOMEN

Paisley Hall, Stauffer Hall and Beardwood Hall, are three new dormitories for women. The buildings house 244 women and are located on the east campus behind the Alumni Memorial Library.

Hobson House is located at Sixth Avenue and Main Street. It is used as a residence hall for women.

Shreiner Hall, fronting on Main Street and facing the College campus, is a residence hall for women. This is a three-story brick building arranged for the accommodation of thirty-three students and a faculty family.

Duryea Hall, 612 Main Street, next to Shreiner Hall, is a residence hall for fifteen women and a faculty family.

Clamer Hall, Main Street, the gift of Dr. Guilliam H. Clamer, is a residence hall for women.

646 Main Street, 942 Main Street, and 944 Main Street are residence halls for women.
Admission

The first step in seeking admission to Ursinus College is to file an application. A form for this purpose may be obtained from the Office of Admissions. After the completed form has been returned to the College, accompanied by the ten-dollar pre-matriculation fee, the Director of Admissions will request the applicant’s school principal or headmaster to send an official transcript of the school record. At the same time, inquiry is made concerning the character of the candidate and his ability to do college work.

Applications for financial aid should be filed at the time the candidate applies for admission.

It is the responsibility of the candidate to make arrangements to take the Scholastic Aptitude Test according to the instructions below.

Tests

All candidates for admission to the Freshman Class are required to take at least the Scholastic Aptitude Test of the College Entrance Examination Board. Full information concerning the dates of administering these tests can be obtained by writing directly to the College Entrance Examination Board, P.O. Box 592, Princeton, New Jersey. If, in the opinion of the Committee on Admissions, it seems helpful to have additional information, the applicant may be asked to take additional achievement tests.

Preparation

A candidate for admission to the Freshman Class must be a graduate of an approved secondary school.

If the applicant is a graduate of a four-year high school he should offer for admission at least fifteen units which are to be distributed as follows:

Basic Academic Credits (9 Units)
- English, Four Years, Earning Three Units
- Elementary Algebra, One Unit
- Plane Geometry, One Unit
- Science, One Unit
- Social Studies, One Unit
- Foreign Language, Two Units in One Language
ADDITIONAL ACADEMIC CREDITS (At least 2½ Units)
Advanced Algebra
Solid Geometry
Plane Trigonometry
Science
Social Studies
Foreign Language

ELECTIVES (Maximum 3½ Units)
Not more than one unit will be granted for any single elective.
Bookkeeping
Drawing (Mechanical, Prepared Course)
Geology
Stenography
Junior Business Training
Music and Art (History or Appreciation)
Commercial Law
Commercial Geography

If the candidate is a graduate of a three-year high school, he should offer at least twelve units, which should include the basic credits above. Not more than one unit may be presented from the group designated as electives.

Applicants whose preparation does not coincide precisely with the foregoing outline may in exceptional cases be admitted to the College if, in the judgment of the Committee on Admissions, they are qualified to do college work satisfactorily.

ENGINEERING PROGRAM

Arrangements have been made with the Massachusetts Institute of Technology and with the Engineering Schools of the University of Pennsylvania by which a student may transfer to either institution after completing three years of prescribed work toward the B.A. degree at Ursinus College.

The Engineering Schools of the University of Pennsylvania and the Massachusetts Institute of Technology may admit a student upon satisfactory completion of three years of prescribed work toward the B.A. degree at Ursinus College.
Ursinus College will grant the B.A. degree after the student has satisfied the requirements for that degree. The University of Pennsylvania and the Massachusetts Institute of Technology will grant the engineering degree on satisfactory completion of the fourth and fifth years. For the outline of the program see page 97.

The candidate for the Engineering program must present 3½ years of entrance credit in Mathematics.

His background in foreign language must be such that he will be capable of entering the second year of language in college. If he is not so prepared he must make up the deficiency in foreign language in summer school.

SPECIAL STUDENTS
A limited number of applicants who are not candidates for degrees may be admitted as special students, provided that they have satisfactory preparation for the college courses which they wish to pursue. Special students who reside at the College must register for at least twelve hours of work in each semester. They are subject to the same regulations as other students.

TRANSFER STUDENTS
To enter the Sophomore or Junior Class at Ursinus College, an applicant must support his application by requesting each institution he has attended subsequent to graduation from secondary school to send to the Director of Admissions a transcript of his record at the institution of higher learning and a letter from the Dean of Men or Women indicating that the applicant is entitled to honorable dismissal insofar as character and personality are concerned. It will be helpful if the candidate will send a catalogue of the college he has been attending, marked to indicate the courses he has taken. No advanced standing will be granted to a transfer student unless his previous college record is free of failures and conditions. There will be no credit for grades below C.

Not more than sixty hours of work taken elsewhere will be credited to students transferring to Ursinus College.

PART-TIME STUDENTS
Non-Resident students who are candidates for a degree and who wish to pursue fewer than twelve hours of work may be classified as part-time students upon the written approval of the Dean of the College.
NOTIFICATION OF ADMISSION

When a candidate for admission is notified of his acceptance by the College, he must make an advance payment of fifty dollars in accordance with the provisions of the Candidates' Reply Date Agreement as used by member colleges of the College Entrance Examination Board. This payment is credited on his bill for the first term. If he fails to complete his matriculation, the payment is forfeited.

THE SUMMER SCHOOL

The eight-week curriculum of the Summer School is announced in the Spring and information concerning course offerings is available after April 15. Admission to Summer School is limited to students who are candidates for, or who have received degrees from, Ursinus College or other accredited institutions of higher learning. An applicant from another institution must submit written permission from the Dean of that institution authorizing him to enroll for a specific course or courses. Inquiries should be addressed to the Director of Admissions.

THE EVENING SCHOOL

The Evening School is organized to make college work available to men and women employed in business, in industry, in teaching, and to others who may be interested. The program emphasizes courses in business administration and in fields closely allied to business administration, such as economics, political science, history, English composition, public speaking and certain foreign languages.

For information, catalogue, and application forms, address The Director, Evening School, Ursinus College, Collegeville, Pa.

TUITION EXCHANGE PROGRAM

Ursinus College is a member of the Tuition Exchange. Requests of children of faculty members of other member institutions for tuition remission will be considered upon application. Because of the necessity for maintaining a balance of imports and exports, it may not always be possible to honor such requests. Applications for tuition remission should be made through the liaison officer of the institution with which the applicant's parent is associated. Those who receive aid through the Tuition Exchange Program are not eligible for additional grants.
PROGRAMS IN SPECIAL FIELDS

Ursinus is a college of liberal arts and sciences. This means that Ursinus emphasizes a broad, general education regardless of the career for which a student plans to prepare. At the same time, it is possible at Ursinus to prepare for specific careers in the fields listed below. A placement service maintained by the College helps the student to find a position in the field of his choice.

Business. Graduates in Business Administration find employment as accountants, secretaries, junior executives, sales managers. They are employed by many types of industrial concerns, banking institutions, public utilities, transportation companies, department stores, chain stores, etc. By electing Spanish, it is possible for students majoring in business to prepare for the growing opportunities in South American trade.

Chemical Research: Industrial Chemistry. The College provides opportunities for students desiring to major in Chemistry with a view to devoting their lives to some type of chemical research. Graduates find employment in the chemical industry doing pioneer work in the field of chemical research and development.

Dentistry. The Council on Dental Education of the American Dental Association fixes as the minimum basis for admission to an approved dental school the successful completion of two full years of academic work in an accredited college of liberal arts and science. This college work must include courses in English, biology, physics, inorganic and organic chemistry.

Educational Administration. Basic courses in Education are provided which are prerequisite to the professional courses in Educational Administration offered in graduate schools of education of leading universities.

Engineering. Students who wish to study Chemical, Civil, Electrical, Mechanical or Metallurgical Engineering may avail themselves of a program which is being offered at Ursinus College in cooperation with the University of Pennsylvania or the Massachusetts Institute of Technology. A student at Ursinus College may transfer to one of the Engineering Schools of the University of Pennsylvania or the Massachusetts Institute of Technology after completing three years of prescribed work toward the B.A. degree at Ursinus.

Ursinus College will grant the B.A. degree after the student has satisfied the requirements for that degree. The University of Pennsyl-
vania or the Massachusetts Institute of Technology will grant the Engineering degree upon completion of the fifth year.

**Foreign Service.** The American foreign service presents attractive opportunities to a limited number of young people who are willing to prepare themselves adequately for service abroad. The history and social science courses, together with offerings available in the modern languages, provide preparation for the examinations required of applicants for positions in foreign service. Upon graduation students are urged to pursue additional work at a recognized graduate school.

**Graduate Study.** One purpose of the curriculum of the modern liberal arts college is to prepare students for advanced study in various fields of knowledge. Preliminary study is done by the student at the undergraduate level in his chosen major field. Those intending to enter graduate schools should have a thorough grounding in their chosen field. As a reading knowledge of French and German is essential for most higher degrees, this knowledge should be acquired in the undergraduate school.

**Health and Physical Education.** It is possible to specialize in health and physical education and at the same time obtain a general cultural education. Health and physical education graduates meet the requirements for certification to teach in this field in Pennsylvania and other states.

**Journalism.** A student interested in journalism should enroll in the departments of history, political science, or English and elect widely in other fields. Following graduation from college a year at a professional school of journalism is recommended.

**Laboratory Technology.** It is possible to arrange for either a two-year or a four-year course of preparatory work, although the latter is strongly recommended as the preferred training.

**Law.** As a general rule leading law schools require a baccalaureate degree as one of the conditions for acceptance of candidates. A broad, cultural education is considered the best preparation for legal study.

**Medicine.** Concentration in biology or chemistry is recommended in order to prepare students who are interested in the various aspects of medicine. Preparation for schools of osteopathy and of veterinary medicine, as well as for the regular medical schools, is provided.
Music. Although a considerable number of courses in music are available at Ursinus, no major in music is offered. Those who wish to follow music as a career should plan to attend graduate school after completing their work at Ursinus.

Nursing. Students who plan to enter the profession of nursing should register for courses in biology, chemistry, and liberal arts in order to qualify for consideration by schools of nursing.

Physical Research. A program of concentration in physics and mathematics is offered to students interested in physics as a career.

Psychology. Undergraduate work in psychology is designed for those who seek admission to graduate schools or who wish to enter personnel work in industry. Undergraduate study in psychology is of assistance in the fields of teaching, guidance, law, clinical psychology, personnel and social work, nursing, and preparation for medicine.

Teaching. Work in education, including practice teaching, as required by many of the state departments of education, is offered to those who plan a career in education. Teacher preparation is limited to the secondary school field. Students follow curricula under the guidance of advisers.

Theology and Religious Education. Most leading theological schools have a requirement for consideration for admission a degree in liberal arts. Students who are preparing for the ministry should plan a broad course of study which will include history, languages, and literature, although specific subjects are not ordinarily specified by seminaries as necessary for admission.

THE COLLEGE YEAR

The College year at present consists of two terms of sixteen weeks each and a Summer Term of eight weeks. Students are admitted to the College at the beginning of any term. Students who wish to do so may accelerate their college courses by attending the Summer Term in addition to the Fall and Spring Terms. The Summer Term is available to all students who wish to take advantage of it.
Expenses

RESIDENT STUDENTS Charges Per Year

Men—Comprehensive Fee .................................. $1290 to $1400
Women—Comprehensive Fee ................................ $1330 to $1400
Activities Fee ............................................. $20

NON-RESIDENT STUDENTS Charges Per Year

Tuition ....................................................... $700
Activities Fee ............................................. $20

PAYMENTS ARE TO BE MADE AS FOLLOWS

New Students
Advance Payment ........................................... $50
As indicated on bill
Breakage Deposit ........................................... $10

Old Students
July 15 —
Advance Payment ........................................... $50

All Students
September — As indicated on bill
Comprehensive Fee less credit for advance payment
Activities Fee
January — As indicated on bill
Comprehensive Fee
Activities Fee

When the student is a recipient of a scholarship award, credit will be applied in the amount of one-half the value of the annual award to each semester bill.

Some students find it inconvenient to pay the comprehensive fee in one sum. Requests for devising a special financial plan may be made in advance to the Treasurer's Office.

FEES

Pre-Matriculation Fee. A fee of $10 is paid by the candidate at the time he files his application. This fee is not refundable and is not applied toward the student's bill.

Checks should be made payable to URSINUS COLLEGE.
Special and Part-Time Students are charged at the rate of $25 per semester hour.

Advance Payment. (a) Upon his acceptance by the College an applicant must make an advance payment of $50. This payment is credited on his bill for the first term. If he fails to complete his matriculation, this payment is forfeited. (b) All regularly enrolled students must make an advance payment of $50 at such time as may be designated by the College. This payment is forfeited if the student fails to complete his registration.

Comprehensive Fee covers classroom instruction, tuition, use of laboratories, libraries, gymnasiums, and the infirmary; ordinary medical attention; care by the resident nurse; furnished room and board, exclusive of Christmas and Winter and Spring recesses. The variation in fee depends upon the location of the room.

The College reserves the right to make reasonable alterations in the comprehensive fee at the beginning of any term to cover possible unforeseen costs.

Activities Fee covers subscription to the Ursinus Weekly, intercollegiate debating, the Christian Associations, the Ursinus College Forum, admission without charge to all athletic contests at the College, admission to Curtain Club plays and to College dances.

Pre-Session Camp for Women in Physical Education. An instructional fee of $32 is charged for attendance at the Pre-Session Physical Education Camp. The charge for room and board is $32 for the period.

Room Drawing. A previously enrolled woman student must pay $10 in order to qualify for drawing a room. Credit will be applied on the bill for the first term.

Private Musical Instruction. A fee of $50 is charged for any student who wishes private individual instruction in organ, piano, violin, voice or any band or orchestral instrument. This is the charge for one half-hour lesson each week during the regular term.

Breakage Deposit. A deposit of $10 is required of each new student to defray any expense incurred by injury to property and is included on the bill for the first term. The unexpended balance is returned upon graduation or withdrawal from College.

Checks should be made payable to UR SINUS COLLEGE.
STUDENT TEACHING. An additional fee of $50 is required of each student engaged in practice teaching. This is payable upon presentation of the bill.

GRADUATION FEE. A graduation fee of $10 is charged each student on the last bill of his senior year.

TRANSCRIPT FEE. A charge of $1 is made for each transcript of a student's record after the first. Requests for transcripts should be made to the Office of the Dean.

REGULATIONS
Bills for the Comprehensive Fee are issued approximately thirty days before the beginning of each term. A student's bill must be settled no later than the date indicated on the statement.

No student who is indebted to the College or to any of its departments or agencies will be permitted to register at the beginning of any term, and all items due the College from a candidate for graduation must be paid before the candidate may be presented for a degree.

A student who is absent from College because of sickness, and retains his place in class, pays the Comprehensive Fee in full during his absence, except when the absence is continuous over a period exceeding four weeks, in which case resident students are allowed a rebate of $5 for each full week on account of table board. No refund is allowed because of a student's dismissal or withdrawal from the College during a term, except when the student enters the armed services.

A student who voluntarily withdraws from College must notify the Dean and settle all bills within thirty days or be liable to dishonorable dismissal.

The possession or use of alcoholic beverages on the campus or in Collegeville is forbidden.

Freshman students are prohibited from having an automobile in Collegeville and vicinity during the academic year. Sophomores and Juniors holding scholarships and positions under the Bureau of Student Employment are similarly restricted.

If a woman student marries, she at once forfeits her membership in the College. She may, however, apply for readmission.

The College reserves the right to exclude at any time students whose conduct or academic standing renders them undesirable members of the college community, and in such cases the fees due or paid in advance to the College will not be refunded in whole or in part.

Checks should be made payable to URSINUS COLLEGE.
General Information

ROOMS AND MEALS

Ursinus College is a community and pleasant community life is emphasized. Students who are not living in their own homes are required to room at the College and to take their meals in the College dining rooms. A faculty-supervised French table is available for those who wish practice in oral French.

Each resident student supplies his own towels, two pairs of sheets for a single bed, mattress protector, a pair of pillow cases (38" x 45"), a pair of blankets, and a bedspread. Linen rental service is available.

First-year students, except those whose presence is needed for service, are required to vacate their rooms immediately following the second-term examinations.

PUBLIC WORSHIP

All resident students and all day students whose homes are within a mile of the campus are required to attend religious services in the College chapel on certain designated days of each week. Students may not be absent from chapel services more than three times in a semester without valid excuse. Students are encouraged to attend services on Sunday in the church of their own choice.

ABSENCES

Students are expected to attend all meetings of the classes in which they are enrolled and to take all tests and examinations on the announced days.

A student’s absences in any course must not exceed twice the number of meetings per week in that course. This regulation is designed to allow for cases of illness, the death of a relative, or duty away from the College as a representative of the institution, and, in the case of a day student, transportation difficulties.

If a student has exceeded the number of allowed absences he may be dropped from the course by the Dean after consultation with the instructor and the student’s adviser. If a student is dropped for overcutting, he will be assigned a grade of F in that course. If he is allowed
to continue, he must make up the work missed and pay the required fees for permits and re-examinations.

The fee for each re-test and re-examination is five dollars ($5).

Three latenesses are counted as the equivalent of one absence. Absences directly preceding and following a holiday are counted double.

A third-year or fourth-year student whose grades in the term immediately preceding include at least one A and no grade lower than B is placed on his own responsibility for attendance at classes.

GRADES OF SCHOLARSHIP

On the completion of a course, the standing of the student is expressed, according to his proficiency, by one of six grades, A, B, C, D, E, or F. Letter A denotes grades between 100% and 90%, B between 90% and 80%, and so on. The grade E denotes a failure which may be made up by re-examination. The fee for this examination is five dollars. Students who have received grades higher than E are not permitted to take re-examinations for the purpose of raising their grades. The grade of F at the end of a term denotes a failure. That work must be repeated in order to obtain credit for the course. The mark I denotes that the work of a course is incomplete. This grade may be assigned only in cases of hospitalization or emergency, upon written permission of the Dean.

If the grade of E or I is not removed within one month after the beginning of the following term, the grade of F will be assigned for the course.

A student is required to have an average of 70% at the end of each term in College. A student who fails to do so will be restricted in his extra-curricular activities, declared ineligible, and reported to the Faculty.

A student whose average at the end of the first term or second term is below 65%, whose cumulative average is below 65% at the end of the first year, or whose cumulative average is below 70% at the end of the third term or thereafter will be dropped from the College unless, as a result of mitigating circumstances, the Faculty votes that he be permitted to continue. The action of the Faculty in all such cases is final.

Employment under the Bureau of Student Employment, or participation in intercollegiate athletics or other intercollegiate activities is not allowed to a student whose average for the preceding term is below 70%.

A student under discipline may be barred by the Committee on Discipline from all extra-curricular activities.
A permanent record is kept of each student's work, a copy of which is sent to his parent or guardian at the close of each term. The standing of first-year students is reported also at mid-term. Through correspondence and conferences, the cooperation of parents is sought in the endeavor to obtain the best possible results in the work of students.

DEGREES

URSINUS COLLEGE confers two degrees in course: Bachelor of Arts and Bachelor of Science. For specific requirements of the curricula leading to each of these degrees, see pages 92, 93, 94 and 95. Degrees are conferred only at convocations and candidates must present themselves in person.

The College may confer the honorary degrees of Doctor of Divinity, Doctor of Pedagogy, Doctor of Science, Doctor of Letters, and Doctor of Laws on persons whose distinguished ability and service have been deemed worthy of such recognition by the Faculty and the Board of Directors.

HONORS

COMMENCEMENT

Two Commencement honors are assigned: one, the Valedictory, to the person attaining the highest standing in the graduating class; the other, the Salutatory, to the person attaining the next highest standing.

GRADUATION WITH DISTINCTION

Members of the graduating class who have shown great proficiency in their entire course may be graduated with distinction if, in the opinion of the Faculty, their attainments warrant such honors. These distinctions, Summa Cum Laude, Magna Cum Laude, and Cum Laude, are given only for unusual excellence in all the subjects pursued by the candidate.

DEPARTMENT HONORS

Students may be graduated with special honors in departments of study in which they have shown exceptional proficiency, and in which they have done extra work.

1. A candidate for Department Honors must have the endorsement of the professor in charge of the department in which he expects to try for such honors, and must enroll as a candidate at the Dean's office at least eight months prior to the anticipated date of graduation.

2. A student must maintain a grade not lower than C in any course pursued
after the first year and must maintain an average of B while he is pursuing his work as a candidate for Department Honors.

3. A candidate must complete an amount of work equivalent to three semester hours in the department in which he intends to try for honors in addition to the full number of semester hours prescribed for graduation. At least twelve semester hours must be in the subject in which he is registered for Department Honors. He must submit to the Faculty a thesis on some subject within the field represented by his extra work. The thesis must be presented at least one week before the time set for the senior final examinations.

MEDICAL SERVICE

The Comprehensive Fee paid by resident students entitles them to ordinary medical attention. The College Physician may be consulted in his office on the campus during office hours. He will regularly visit patients in the infirmaries. During the regular College sessions the resident nurses are on duty twenty-four hours a day. They care for the sick under the direction of the College Physician.

The College will not pay bills that students contract with hospitals or with physicians or nurses not on the staff of the College. The College reserves the right to enforce quarantine and to engage the services of special attendants if necessary, but will not be responsible for the compensation of extra physicians, nurses, or attendants, which compensation must be provided by the student or his parent or guardian.

PRE-SESSION CAMP FOR WOMEN IN PHYSICAL EDUCATION

A camp is available on an optional basis for sophomore, junior, and senior women who are majoring in Physical Education. The camp is operated during a period of two weeks immediately preceding the opening of the fall term. Class instruction by regular members of the staff normally includes work in archery, canoeing, hockey, horseback riding, officiating, swimming, life-saving, and tennis. The time spent in camp activities will be deducted from the hours required in Physical Education activities, Courses 203 to 208, during the college year.
Scholarships, Prizes, and Aid to Students

FULL-TUITION SCHOLARSHIPS
There are eight Open Scholarships, each having a potential value of $2800, available to the entering Freshman Class in September. The Open Scholarships are competitive, provide full tuition to the recipients, and are tenable for four years, provided that the holder's conduct and scholastic work remain satisfactory.

Candidates for Open Scholarships must take the Scholastic Aptitude Test and three sub-tests of the Scholastic Achievement Tests (one of which must be in English) in the December, January, February or March series of the College Entrance Examination Board.

Application for Open Scholarships must be filed by March 1.

OTHER FINANCIAL GRANTS
Many endowed financial grants, each having a potential value of from $200 to $1600 for four years, are awarded on the basis of financial need. Each grant is tenable for four years provided that the holder's conduct and scholastic work remain satisfactory.

Scholarship application forms may be obtained from the Director of Admissions. Applicants for both types of aid are required to fill out the College Scholarship Service Statement, indicating financial status.

Applications for financial grants must be filed by March 1.

BUREAU OF STUDENT EMPLOYMENT
The Bureau, conducted under the management of officers of the College, provides opportunities for students to earn a part of their expenses by working as waiters, laboratory assistants, library assistants, typists, and clerks in the Supply Store. These positions are standardized so as not to overburden the student or to interfere with his studies. Positions accepted under the Bureau of Student Employment must, however, always take precedence over any other extracurricular activities. A standard position, such as a waitership in the dining room, pays three hundred and ten dollars per year. Approximately one hundred and
fifty positions, representing varying amounts of compensation and types of work, are now open to students.

Students who agree to perform a specific task, such as serving in the dining rooms, have their accounts credited in advance of their work. Those who work by the hour, however, have their accounts credited at the end of their term of work. Inasmuch as bills for the Spring Term are prepared and mailed before the end of the Fall Term, students who work by the hour must all have their bills adjusted at the opening of the Spring Term.

Letters of application, as well as those requesting information, should be addressed to the Director of Student Employment.

PLACEMENT BUREAU
Ursinus College conducts a placement bureau to assist students and graduates in finding positions for which they qualify. Its function is to serve as a point of contact for seniors and alumni with educational institutions, business, and industry. Detailed personal and scholastic records of seniors and alumni are compiled and are available along with a photograph, for all prospective employers.

ALUMNI PLACEMENT — The Placement Bureau acts as a clearing house for the placement of alumni seeking employment or new positions. Alumni are encouraged to place their names on the list of available candidates. A fee of $1.00 is charged for alumni registrations.

Persons seeking placement in the educational field or in business or industry should address communications to the Director of Placement, Ursinus College, Collegeville, Pa.

LOAN FUNDS
Permanent funds have been established to provide loans to third-year and fourth-year students. Applications for loans should be addressed to the President of the College.

PRIZES

THE PHILIP H. FOGEL MEMORIAL PRIZE
The Philip H. Fogel Memorial Prize of $25 is awarded each year to the member of the Senior Class who has done the best work in the Department of Religion. The prize has been endowed by Mrs. Edwin J. Fogel in memory of her son, Philip H. Fogel, Ph.D., Class of 1901.
THE EDWIN M. FOGEL PRIZE
The Edwin M. Fogel Prize of $25 is awarded each year to the student who, under the direction of the Department of History and the Department of German, submits the best essay on the contribution of the Pennsylvania Germans to American life and culture. The prize has been endowed by Edwin M. Fogel, Class of 1894.

THE DUTTERA PRIZE
A prize consisting of the income of $500 contributed by Mrs. Amos Duttera of Taneytown, Maryland, is awarded each year to the student attaining the highest standing in the study of church history (Religion, Course 6).

THE PETERS PRIZE
The Rev. Dr. and Mrs. Morgan A. Peters Memorial Prize of $50, established under the will of Emma Jane Peters, is awarded each year to a man in the Senior Class for excellence in the study of the Bible.

THE PAISLEY PRIZES
Two prizes of $25 each for the best dissertations on an assigned topic by members of the Senior Class, one open to men, the other open to women, have been endowed by Mr. and Mrs. H. E. Paisley, of Philadelphia. These prizes are offered to encourage students in the thoughtful application of the principles of Christianity to problems of practical life. The awards are made each year.

THE ELIZABETH ROCKEFELLER MCCAIN PRIZE
A prize of $50 has been endowed by the late George Nox McCain, Litt.D., of Philadelphia, as a memorial to his mother, Elizabeth Rockefeller McCain. This prize is awarded each year to the student who at the end of the second year has shown the greatest ability in the knowledge and use of the English language as indicated by work in composition and literature.

THE BOESHORE PRIZES
Two prizes of $25 each, endowed by Mr. and Mrs. Miller H. Boeshore of Philadelphia, one open to men, the other open to women, are awarded each year to those students who have attained the highest standing at the end of the first year in the study of Greek.

THE EHRET PRIZE
A prize consisting of the income of $500, established under the will of the Rev. Harry J. Ehret, '00, D.D., in memory of his son, Robley W. Ehret, '39, is awarded each year to a student who has excelled in athletics.
THE RONALD C. KICHLINE ATHLETIC PRIZE
A prize consisting of the income of $1,000, established under the will of Ronald C. Kichline, '16, is awarded each year to a student who has excelled in athletics.

THE ROBERT TRUCKSESS PRIZE
A prize of $50 offered by Robert Trucksess, Esq., of Norristown, Pennsylvania, is awarded each year to a man in the Senior Class who plans to study law, and who shows unusual promise.

THE URSIONUS WOMEN'S CLUB PRIZE
A prize of $20, offered by the Ursinus Women's Club, is awarded each year to the young woman who has attained the highest distinction in athletics.

THE URSIONUS CIRCLE PRIZE
A prize of $25, offered by the Ursinus Circle, is awarded each year to the student who has written the best pageant under the auspices of the Department of Public Speaking.

THE ELLEN BEAVER SCHLAYBACH MEMORIAL PRIZE
A prize of $15, offered by the Omega Chi Sorority, is awarded each year to the woman of the Senior Class who has attained the highest scholastic average at the completion of her four years. This prize is offered in memory of one of the Sorority's former presidents, Ellen Beaver Schlaybach, Class of 1938.

THE GEORGE DITTER PRIZE
The George Ditter Prize of $25 is awarded each year to that member of the graduating class whose work in the Departments of History and Political Science gives promise of contributing most to the perpetuation of democratic self-government. This prize was established by George Ditter's son, the Honorable J. William Ditter, LL.D., and continued by George Ditter's grandchildren, Miss Mabel B. Ditter, Class of 1939, and Mr. J. William Ditter, Jr., Class of 1943.

THE ROSICRUCIAN PRIZE
The Rosicrucians, the honor society for women, have established a prize to be awarded each year to the woman student who at the end of the first year has the highest scholastic standing.

THE ELIZABETH B. WHITE PRIZE
A prize of $25 is awarded each year to the woman in the Senior Class
who has chosen History as her major subject and who, in the judgment
of the Department of History, gives greatest promise of successful con­
tinuance in that field or in social welfare work. This prize was estab­
lished by Dr. Elizabeth B. White, Emeritus Professor of History.

THE J. HAROLD BROWNBACK PRIZE

A prize of $25 is awarded each year to a member of the Senior Class
for outstanding achievement in scholarship and in extracurricular activi­
ties. This award was established by Mrs. Paul L. Doughty (Mary C.
French Doughty, Class of 1952).

PERMANENT SCHOLARSHIP FUNDS

The College possesses a number of permanent scholarship funds. The
income of each fund is assigned annually to a student designated by the
College. The list of these scholarships is as follows:

The John Alexander Scholarship, founded by John Alexander, D.D., of
St. Louis, Missouri, in appreciation of benefits enjoyed when a student in
the College.

The Alumni Memorial Scholarships, founded by the gifts of alumni and
friends, in memory of the Ursinus men who gave their lives in the service
of their country, 1941-45.

The Appel Memorial Scholarship, founded under the will of the Rev.
Richard S. Appel, D.D., as a memorial to his son, Robert S. Appel, A.B., '01,

The Aspden Memorial Scholarship, founded by Newton J. Aspden, of
Trinity Reformed Church, Philadelphia, in memory of his beloved wife,
Levinah Erb Aspden.

The Bahner Scholarship, founded in 1919 by the members of Trinity
Reformed Church, Waynesboro, Pa., in honor of the Rev. Franklin F.
Bahner, D.D., '73, and his wife, Mary Ella Bahner, on their completion of
forty-two years of devoted service in the pastorate of the Waynesboro charge.

The F. Kline Baker Scholarship, founded under the will of F. Kline
Baker, of Philadelphia, in memory of his wife, Helen Baker.

The Beck Scholarship, founded by the Rev. Samuel W. Beck, of Littles­
town, Pa., in appreciation of the scholarships awarded to his four daugh­
ters, the income to provide scholarships for girls who plan to teach.

The Augustus Behney Scholarship, founded by Charles A. Behney, M.D.,
'12, in memory of his father,

The Valeria Behney Scholarship, founded by Charles A. Behney, M.D.,
'12, in memory of his mother,

The Bethany Tabernacle Scholarship, founded by the congregation of
Bethany Tabernacle Reformed Church, Philadelphia, the Rev. H. H. Hart­
man, '94, pastor,

The J. William Bireley Scholarship, founded by J. William Bireley of
Frederick City, Md.,
The Anna M. Bomberger Scholarship, founded by Anna M. Bomberger, with gifts amounting to $600 and completed by Mrs. H. S. Bomberger, both of Lancaster, Pa., 1,900.00
The John Brownback Memorial Scholarship, founded by Melinda M. Acker and Mary M. Brownback, of Uwchland, Chester County, Pa., in memory of their father, 1,000.00
The Mary M. Brownback Scholarship, founded under the will of Mary M. Brownback, of Uwchland, Chester County, Pa., 1,000.00
The Carson Scholarship, founded under the will of Captain John Carson, of Newburg, Cumberland County, Pa. 1,000.00
The Christ Church, Hellertown, Scholarship, founded by the congregation of Christ Evangelical and Reformed Church, Hellertown, Pa., the Rev. Adam E. Schellhase, '18, pastor, 1,000.00
The Class of 1911 Scholarship, founded by the Class of 1911, 1,295.50
The John H. Converse Scholarship, founded by John H. Converse, of Philadelphia, 1,000.00
The Cub and Key Scholarship, founded by The Cub and Key Society, 3,003.76
The Deitz Scholarship, founded by Gilbert A. Deitz, '18 and Purd E. Deitz, '18, in memory of Martha E. Deitz and Mattie A. Deitz, 1,000.00
The Barnabas Devitt Scholarship 1,000.00
The Elsie Devitt Scholarship 1,000.00
The Emma Mayberry Devitt Scholarship 1,000.00
The Devitt Scholarships were founded under the will of Emma Devitt of Philadelphia, Pa., 2,037.92
The Doll Family Scholarship, founded by George Doll, Adaline Doll, and Josephine Doll of Philadelphia, 2,000.00
The Charles and Elizabeth Drumm Scholarship, founded by Charles Drumm, of Philadelphia, Pa., 4,000.00
The Eastwick Scholarships, founded by Joseph Lees Eastwick, LL.D., 25,500.00
The Erb Scholarship, founded by the Rev. William H. Erb, '93, and Andora Erb, 2,000.00
The Fetterolf Memorial Scholarship, founded under the will of Abraham D. Fetterolf, of Collegeville, Pa., 2,000.00
The John B. and Horace A. Feters Scholarship, founded under the will of Mary M. Brownback, of Uwchland, Chester County, Pa., 1,000.00
The John B. Feters Memorial Scholarship, founded by Rebecca B. Feters, of Uwchland, Chester County, Pa., in memory of her son, who died after a week's attendance at College in September, 1885, 1,000.00
The Alice L. and William D. Fox Scholarship, founded under the will of Alice L. Fox, of Lebanon, Pa., 1,000.00
The Alice R. Fox Memorial Scholarship for Girls, founded under the will of David R. Rohrbach, '07, 11,854.16
The Henry Francis Scholarship, founded by Henry Francis, of Spring City, Pa., 1,000.00
The Elizabeth Frey Scholarship, founded by gift of Elizabeth Frey, of Stewartstown, Pa., 11,500.00
The Alfred Gemmell Scholarship, founded in memory of Alfred Gemmell, '39 (1916-1957), 1,417.44

The Anna High Godshalk Scholarship, founded in memory of Anna High Godshalk, '20 (by her husband, Ralph L. Godshalk), 2,000.00

The Grace Church Scholarship, founded by Milton Warner and Wilson H. Lear, of Grace Reformed Church, Philadelphia, Pa., 1,000.00

The Haines Scholarship, founded by Charles Grove Haines, '03, and Bertha Moser Haines, '02, 1,749.83

The Heidelberg Scholarship, founded by a member of Heidelberg Reformed Church, York, Pa., 1,000.00

The Nova Shuler Helfferich Scholarship, founded to honor Nora Shuler Helfferich, '93, by her daughter-in-law, Anna Knauer Helfferich, '20, the income to be awarded to needy and deserving women students, 8,189.72

The William Ursinus Helfferich Scholarship, founded by Christ Reformed Church, Bath, Pa., on the twenty-fifth anniversary of the ministry of their pastor, and increased by later gifts, 1,500.00

The William A. Helfferich Scholarship, founded by the Rev. W. A. Helfferich, D.D., of Fogelsville, Pa., 1,000.00

The George W. and Francis R. Hench Scholarship, founded by the Rev. S. M. Hench, D.D., of Trappe, Pa., in memory of his parents, 1,500.00

The Mattie B. Hench Scholarship, founded by Mrs. Mattie B. Hench, of Trappe, Pa., 1,200.00

The Joseph H. Hendricks Memorial Scholarship, founded in memory of the Rev. Joseph H. Hendricks, D.D., for forty-three years (1862-1905) pastor of Trinity Church, Collegeville, and for eighteen years (1887-1905) a Director of Ursinus College, by his friend, Jacob P. Buckwalter, of Macon, Georgia, 5,000.00

The Hilltown Scholarship, founded by the Hilltown and Dublin charge of the Reformed Church in the United States, Bucks County, Pa., 1,000.00

The Freeland G. Hobson Scholarship, founded under the will of Freeland G. Hobson, LL.D., '76, of Collegeville, 1,000.00

The Joseph and Enoch Isenberg Scholarship, founded by Dorothy Isenberg, of Hollidaysburg, Pa., 1,000.00

The Mary E. and James M. S. Isenberg Scholarship, founded by Paul H. Isenberg, '21, Lilian Isenberg Bahney, '23, and Helen Isenberg Ballantyne, '24, in memory of their parents, 1,175.00

The Jefferson Medical College Scholarship, founded by Lewis Cass Scheffey, M.D., ScD., to aid students who plan to enter Jefferson Medical College, 4,000.00

The Saint John's, Orwigsburg, Scholarship, founded by the congregation of Saint John's Reformed Church, Orwigsburg, Pa., the Rev. D. R. Krebs, D.D., '02, pastor, 1,000.00

The Johnson Scholarship, founded in memory of J. Howard Johnson, '94, and his wife, Myra, by Mrs. Ella J. Johnson, 500.00

The Keeley Scholarship, founded by Joseph Keely, of Spring City, Pa., 1,000.00

The Kelker Scholarship, founded by Rudolph F. Kelker, of Harrisburg, Pa., 1,000.00
The Francis Kready Scholarship, founded by Francis Kready, of Lancaster Pa., 2,000.00

The Franklin W. Kremer Memorial Scholarship, founded by the Rev. F. W. Kremer, D.D., with gifts amounting to $500, and completed by the Sunday School of the First Reformed Church, of Lebanon, Pa., in grateful memory of his thirty-eight years' pastorate, 1,000.00

The LeRoy Boyer Laubach Scholarship, founded in memory of LeRoy Boyer Laubach by his mother, Mrs. M. B. Laubach, of Philadelphia, Pa., 2,000.00

The Leinbach Scholarship, founded by Irwin S. Leinbach, '29, M.D., Sc.D., 3,000.00

The Sarah J. Leiphart Scholarship, founded under the will of Sarah J. Leiphart, of York, Pa., 9,842.81

The Longacre Scholarship, founded by Walter Force Longacre, Class of 1914, in memory of his parents, Emanuel Longacre, member of the Board of Directors of Ursinus College from 1869 to 1894, and his wife, Caroline Everhart Force, whose eight children attended Ursinus Academy, and three of whose children were graduated from Ursinus College, 5,000.00

The Francis Magee Scholarship, founded by the late Francis Magee, of Philadelphia, 1,000.00

The Aaron E. March Scholarship, founded by Aaron E. March, of York Pa., 2,000.00

The Markley Scholarship, founded by Dr. Mary E. Markley, '02, in memory of her father, the Rev. A. B. Markley, D.D., '76, 4,500.00

The Saint Mark's Scholarship, founded in 1918 by the members of Saint Mark's Reformed Church, Lebanon, Pa., in honor of their pastor, the Rev. I. Calvin Fisher, D.D., '89, and his wife, Eva S. Fisher, and in celebration of their twenty-fifth anniversary in the pastorate of Saint Mark's Church, 1,000.00

The James W. Meminger Scholarship, founded by the congregation of Saint Paul's Reformed Church, Lancaster, Pa., in honor of the Rev. James W. Meminger, D.D., '84, former pastor, 1,000.00

The Meyran Scholarship, founded by Louis A. Meyran and his wife, Marie H. Meyran, of Grace Reformed Church, Pittsburgh, Pa., 2,000.00

The Miller Scholarship, founded by Elmer E. and Erma Miller Steinbrunn, of Orwigsburg, Pa., in memory of Mrs. Steinbrunn's parents, Alfred M. and Pauline Miller, 1,000.00

The D. Charles Murtha Scholarships, founded under the will of D. Charles Murtha, '86, 19,949.32

The Annie Neff Scholarship, founded under the will of Annie Neff, of Alexandria, Huntingdon County, Pa., 1,500.00

The Martin B. Neff Scholarship, founded by Annie Neff in memory of Martin B. Neff, of Alexandria, Pa., and in recognition of his life-long interest in Ursinus College, 1,800.00

The Noss Scholarship, founded by Charles H. Noss, of York, Pa., in memory of his parents, William S. Noss and Emma S. Noss, 10,000.00

The George Leslie Omwake Scholarships, founded by several hundred alumni and other friends of the sixth president of Ursinus College, 75,007.17
The Omwake Memorial Scholarship, founded by W. T. Omwake, Esq., of Waynesboro, Pa., as a memorial to his parents, Henry and Eveline Beaver Omwake, 2,000.00

The Paisley Scholarship, founded in honor of Mrs. Carrie Strassburger Paisley, of Trinity Reformed Church, Philadelphia, 2,000.00

The Harry E. Paisley Scholarship, founded by Harry E. Paisley, LL.D., of Trinity Reformed Church, Philadelphia, 5,000.00

The John and Margaret Paisley Scholarship, founded by John and Margaret Paisley, of Garden City, Long Island, N. Y., 6,000.00

The Saint Paul's, Lancaster, Scholarship, founded by the congregation of Saint Paul's Reformed Church, Lancaster, Pa., the Rev. T. A. Alspach, D.D., '07, pastor, 2,000.00

The Pascucci Scholarship, founded by the Class of 1952 in memory of Eugene Anthony Pascucci, '52 (1928-1954), 1,284.05

The Pennsylvania Female College Memorial Scholarship, founded by the Glenwood Association, a body of former students of the Pennsylvania Female College, in recognition of the earlier work done at Collegeville for the higher education of women, 3,000.00

The Neri F. and Serena J. Peters Scholarship, founded in memory of the Rev. and Mrs. Neri F. Peters by their children, 2,000.00

The Raynor-Fetterolf Scholarships, founded by Alves L. Raynor and his wife, Helen Miller Raynor, '11, in memory of their son, Eugene Richard Raynor (1926-1940), 55,847.77

The Jesse W. Roberts Memorial Scholarship, founded by Charles V. Roberts, '32, in memory of his father, 9,950.00

The Silas H. Rush Scholarship, founded in memory of her parents, Mr. and Mrs. Silas H. Rush, by Mrs. E. R. Hoffman, of Philadelphia, 1,000.00

The Scheer Memorial Scholarship, founded under the will of Thekla Ida Scheer, in memory of her father, the Rev. George A. Scheer, D.D., '76, the income to be used to aid students who plan to enter the Christian ministry, 5,000.00

The Jacob S. and Lucinda Schwartz Scholarship, founded by the bequest of Jacob S. Schwartz, of Hanover, Pa., 1,000.00

The Schwenksville Community Scholarship, founded by the citizens of Schwenksville, Pa., 1,922.00

The Jocelyn Xander Sheeder Scholarship, established by the late S. Elizabeth Xander, of Philadelphia, Pa., 1,000.00

The J. B. Shontz Memorial Scholarship, founded by the Congregation and Sunday School of Saint John's Reformed Church, Chambersburg, Pa., in memory of their former pastor, the late Rev. J. B. Shontz, 1,000.00

The A. Lizzie Shreiner Scholarship, founded under the will of A. Lizzie Shreiner, of Lancaster, Pa., 1,350.00

The Siebert Scholarship, founded under the will of P. W. Siebert, of Pittsburgh, Pa., 1,004.00

The Sigma Rho Lambda Fraternity Scholarship, 2,023.50

The George S. Sorber Scholarship, founded by the Rev. George S. Sorber, D.D., of York, Pa., 2,000.00
The Nathan Spangler Scholarship, founded by Nathan Spangler, of York, Pa., $1,000.00

The Sprankle Scholarship, founded under the will of Samuel Sprankle, of Altoona, Pa., $2,000.00

The Stauffer Memorial Scholarship, founded in memory of Robert Ursinus and John Donald Stauffer, deceased children of the Rev. J. J. Stauffer, by gifts amounting to $500 from the pastor and members of the Lykens Valley charge, and completed by a bequest of $500 under the will of Elizabeth Ritzman, of Gratz, Pa., $1,000.00

The Stauffer Scholarship, founded by the Rev. George A. Stauffer, '94, and Laura M. Stauffer, Lancaster, Pa., $7,217.11

The Harold D. and Edith C. Steinbright Scholarship, founded by Dr. and Mrs. Harold D. Steinbright, of Norristown, Pa., $12,555.00

The Clementina R. Stewart Scholarship, founded under the will of Clementina R. Stewart, of Myerstown, Pa., $1,000.00

The G. Leicester Thomas Scholarship, founded by G. Leicester Thomas, of Adamstown, Md., $9,800.00

The Trinity Bible School Scholarship, founded by the Bible School of Trinity Reformed Church, Philadelphia, $2,860.00

The Trumbower Memorial Scholarship, founded by Mr. H. C. Trumbower, of Trinity Reformed Church, Philadelphia, in memory of his parents, Dr. Lewis T. and Annie B. Troxel Trumbower, $5,000.00

The Vance Scholarship, founded by the Class of 1949 in memory of John Robert Vance, '49 (1925-1954), $1,232.50

The Abraham Wagner Scholarship, founded under the will of Abraham Wagner, of the Robinson Church, Berks County, Pa., $1,000.00

The George A. Walker Scholarship, founded under the will of George A. Walker, of Philadelphia, Pa., $10,000.00

The Wehr Scholarships, founded in honor of the Rev. Calvin P. Wehr, D.D., '95, and Agnes E. Wehr, by their daughter, Florence A. Wehr, $15,000.00

The John Wiest Scholarship, founded in memory of John Wiest, a member of the original Board of Directors of Ursinus College, by his son, Howard M. Wiest, '92, $5,000.00

The George Wolff Scholarship, founded by the Rev. George Wolff, D.D., of Myerstown, Pa., $1,000.00

The Young Scholarships, founded under the will of Mary Lantz Young, of Philadelphia, Pa., $16,000.00

The Dr. and Mrs. Isaac Zyner Memorial Scholarship, founded under the will of Jennie H. H. Wieder Zyner, $26,375.26
The Educational Program

The departmental system is employed in the organization and administration of instruction. By this system, the courses of instruction are offered in thirteen departments: Biology, Chemistry, Classics, Economics and Business Administration, English, German, Health and Physical Education, History, Mathematics, Physics, Political Science, Psychology, Romance Languages. The adviser is the medium of communication between the Faculty and students of his department. The approval of the adviser is necessary before a student may register for or enter upon any course of study, or discontinue any work.

A student, at matriculation, chooses the subject of major concentration he desires to pursue, and with the advice and consent of the adviser selects his studies for the year and reports his selection to the Dean on a blank provided for the purpose. A student who is uncertain as to his future plans, and therefore undecided as to his major field, may choose to be registered in an "undesignated major" for the first year.

CHOICE OF STUDIES
The work of every student is composed of three parts: (1) courses which are, in the judgment of the Faculty, essential to a liberal education and are required of all students before graduation; (2) courses required by the department in which the student is registered, and which comprise his major field of concentration; (3) elective courses chosen by the student as a means of further individualizing his course of study, and adapting it to his own intellectual tastes and future purposes.

REGISTRATION
All students must register at the beginning of the Fall Term for the work of the Fall and Spring Terms. Changes in courses of study may be made during the first week of a term with the written approval of the adviser. After the first week, courses may be added or dropped only by joint permission of the Dean, the adviser, and the instructors involved. A student who withdraws from a course without such permission will receive the grade of F. A fee of one dollar is charged for the registration of students on days other than those appointed in the College Calendar.

In registering, the student must present to his department adviser his
complete list of studies, both prescribed and elective, for the whole year. Courses prescribed as degree or departmental requirements or to satisfy conditions must take precedence over and be scheduled before elective courses. When a student changes to another department, he must fulfill the requirements of that department in order to be graduated.

**REQUIREMENTS FOR GRADUATION**

The requirement for the degree of Bachelor of Arts or Bachelor of Science is the completion of one hundred and twenty semester hours which must include all the courses required by the Faculty of all students for graduation and the courses required by the department to which the student belongs. At least sixty semester hours of this work must be completed at Ursinus College, and this must include the work of the senior year.

A regular student may not take in any one term fewer than twelve semester hours of work. The normal maximum for a term is five courses or fifteen semester hours. Two semester hours above the normal maximum may be scheduled with the approval of the adviser, provided the student’s average for the preceding term is eighty or higher. Three semester hours above the normal maximum may be scheduled with the approval of the adviser, provided the student’s average for the preceding term is eighty-five or higher (Exception: Engineering and Physical Education majors are permitted to schedule in each term three hours more than the normal maximum).

**PRESCRIBED COURSES (REQUIRED OF ALL CANDIDATES FOR GRADUATION)**

- English Composition 1, 2
- English Composition 3, 4
- English Literature 3, 4 or 17, 18 or 19, 20
- History 1, 2
- Foreign Languages 1, 2 and 3, 4 or equivalent
- Biology 3, 4 or Chemistry 1, 2 or Physics 1, 2 (if prerequisites are satisfied)
- Economics 3, 4, or Political Science 1, 2
- Psychology 1
- Philosophy (one semester)
- Physical Education 101, 2 (No semester hour credit. Not required of students in the Physical Education Department).

*Each student must bear the responsibility for fulfilling his requirements for graduation.*
Courses of Instruction

In designating courses of study, odd numerals are employed to indicate the courses offered during the Fall Term and even numerals the work of the Spring Term. Exceptions to this regulation are noted. Summer Term offerings are not announced in this catalogue, but so far as possible, courses will be offered to meet the needs of students who register for the Summer Term.

The credit value of each course, expressed in semester hours, is printed in italics. The hours per week are given in the definition of the course.

BIOLOGY

Professor Wagner
Professor Snell
Professor Van Dam
Associate Professor Gurzynski
Assistant Professor Stein

The program of this department aims, through the study of a number of aspects of biology, to foster the scientific attitude in its students, to encourage and maintain a critical and enthusiastic interest in the subject of biology for its own sake, and to provide a background of fundamental courses sufficient for its majors to qualify for teacher certification in the secondary schools and for pre-professional preparation in the several fields of the health services. The department prepares students for advanced work in the biological sciences.

Students majoring in Biology must take a minimum of 28 semester hours in Biology, including Biology 103, 104; 7, 8; 19; 21 or 22. The additional electives may be selected from Biology 6, 17, 18, 20, 21, 22, 23, 24, 25, 26. This department also requires its majors to take the following related courses: Physics 1, 2; Chemistry 101, 102; Mathematics 1, 2 or 1a, 2a.

Teaching  This program (major in Science, concentration in Biology) is designed for prospective secondary school teachers whose principal interest is Biology and who wish to be certified in Biological Science, Science, and General Science.

The following courses are prescribed by the Department of Biology: Biology 103, 104, 6, 17, 18, 19, 21, 22, Chemistry 1, 2 or Physics 1, 2, Mathematics 1, 2, History 116.

The curriculum of students beyond the first year must be arranged in consultation with the head of the Department of Education.

For sequence of courses, see Major in Science, Concentration in Biology, p. 95.

Description of Courses

1. Personal and Community Hygiene  Mr. Gurzynski
   Structure and physiology of the human body in relation to personal hygiene. Study of problems in community hygiene. Lectures, paper, discussions. Offered only in the second semester. This course restricted to men. Three hours per week. Three semester hours.

2. Personal and Community Hygiene  Miss Snell
   Subject-matter and presentation as for Biology 1. A second semester course for women students only. Three hours per week. Three semester hours.
3. General Biology (Zoology)  DR. STEIN
Introduction to principles of structure, function, and development of living things as revealed in a study of selected animal types. Two hours of lecture; one two-hour laboratory period per week. Three semester hours.

4. General Biology (Botany)  DR. STEIN
Introduction to principles of structure, function, and development of living things as revealed in a study of selected plant material. Two hours of lecture; one two-hour laboratory period per week. Three semester hours.

Courses 3 and 4 of General Biology are not open to Biology majors but may be taken by any non-science student to satisfy the college requirements for graduation.

103. General Biology (Zoology)  DR. VAN DAM
A more detailed consideration of the principles relating to the structure, function, and development of representative animal types. Two hours of lecture; two two-hour laboratory periods per week. Four semester hours.

104. General Biology (Botany)  DR. VAN DAM
A more detailed consideration of the principles relating to the structure, function, and development of representative animal types. Two hours of lecture; two two-hour laboratory periods per week. Four semester hours.

Courses 103 and 104 are the basic introductory courses prescribed for all biology majors and for any others who are planning to meet the various pre-professional requirements in biology.

6. Advanced Botany.  DR. WAGNER
The course is designed to give the student a more detailed knowledge of the vascular plant groups, stressing the principles of taxonomy, ecology, and plant geography. Lectures and discussions followed by field and laboratory work. Prerequisite, course 104. Two hours of lecture; one three-hour laboratory period per week. Three semester hours.

Biology 6 is required for those who intend to apply for certification in Pennsylvania as teachers of biology and for pre-veterinarian students.

7. Vertebrate Anatomy  DR. STEIN
The comparative anatomy and relationships of the chordates. A survey of the lower chordates and a detailed consideration of the external anatomy, the skeletal and muscular systems of the Dogfish, Necturus, and Cat. Prerequisite, Biology 103, 104. One hour of lecture, two three-hour laboratory periods per week. Four semester hours.

8. Vertebrate Anatomy  DR. STEIN
A continuation of course 7 covering the digestive, circulatory, uro-genital and nervous systems of the Dogfish, Necturus, and Cat. Prerequisites, Biology 103, 104, 7. One hour of lecture; two three-hour laboratory periods per week. Four semester hours.

17. Human Anatomy and Physiology (Movement and Support)  DR. VAN DAM
Lectures and laboratory exercises illustrating and integrating structure and function of the muscular, nervous, skeletal systems and sense organs. Laboratory material includes models, charts, the foetal pig and parts of the human cadaver. One hour of lecture; one two-hour laboratory period per week. Two semester hours.
18. Human Anatomy and Physiology (Internal functions)  
DR. VAN DAM
A short unit of topics in the anatomy and physiology of internal organs. Lectures and laboratory exercises demonstrating embryology, the autonomic nervous system, the circulatory, respiratory, endocrine, reproductive, excretory, and digestive systems. Dissection of the foetal pig is completed. Prerequisite, Biology 3 or 103. One hour of lecture; one two-hour laboratory period per week. Two semester hours.

19. Embryology  
DR. WAGNER
Gametogenesis, early development, histogenesis and organogenesis of selected animal types, especially the chick, pig, and human. Prerequisites, Biology 103, 104. One hour of lecture; two three-hour laboratory periods per week. Four semester hours.

20. Histology.  
DR. WAGNER
Structural and developmental study of tissues and organs of the vertebrate body. Introduction to histological technique. Prerequisite, Biology 103, 104. One hour of lecture; two three-hour laboratory periods per week. Four semester hours.

DR. WAGNER
Lectures and discussions dealing with the principles of animal and plant genetics, and the consideration of factors pertaining to human inheritance. Assigned readings and papers. Open to all students, preferably after they have had General Biology. Two semester hours.

22. Evolution.  
DR. WAGNER
Lectures and discussions explaining the history of living things in space and time. Assigned readings and papers. Open to all students. Two semester hours.

23. Seminar  
STAFF
Papers and reports concerned with the selected phases of biological knowledge. Topics to be chosen by the instructor in charge. Prerequisites, Biology 7-8; or 19, 20. Open to third and fourth year majors in biology. One hour per week. One semester hour.

24. Seminar  
STAFF
A continuation of course 23. Prerequisites, Course 7-8; or 19, 20. Open to third and fourth year majors in biology. One hour per week. One semester hour.

25. General Physiology.  
DR. VAN DAM
Study of selected topics of cellular and comparative physiology including an introduction to physiological chemistry and instrumentation. Prerequisites, course 103, 104; Chemistry 101-102, (107-108 recommended); Physics 1, 2. Two hours of lecture; one four-hour laboratory period per week. Four semester hours.

Course 25 will be given both semesters (Fall and Spring) if class size demands it. Enrollment is limited to 12 students in each term.

26. Mammalian Physiology.  
DR. VAN DAM
Laboratory investigations and lectures on the functional properties of vertebrate muscular, nervous, circulatory, respiratory, excretory, digestive and endocrine systems. Prerequisites, Biology 103, 104, 7, 8; Chemistry 101, 102; Physics 1, 2. Two hours of lecture; one four-hour laboratory period per week. Four semester hours.

CHEMISTRY

PROFESSOR STURGIS
ASSOCIATE PROFESSOR STAIGER
PROFESSOR PETTIT
ASSISTANT PROFESSOR FORTNUM

The courses of study offered by the Chemistry Department are (1) to provide a course in general chemistry which will satisfy the requirements of the College for a laboratory science; (2) to provide training in chemistry for students planning to teach; (3) to provide more than minimum training for students planning to become technicians in medical laboratories, and for pre-dental and pre-medical students; (4) to offer sufficient specialized training in chemistry beyond the basic courses that will enable the graduates to enter a career as a professional chemist; and (5) to prepare students for graduate training.

Students whose principal interest is Chemistry will select a degree of concentration consistent with their vocational objective.

One of the following programs must be selected:

1. Chemistry Major
This program outlined in detail on page 95 is approved by the American Chemical Society for undergraduate professional training in Chemistry.
The following courses are prescribed: Chemistry 101, 102, 103, 104, 105, 107A, 108A, 109, 110, 117, 118; Mathematics 1, 2, 5, 6; Physics 1, 2; Biology 3, 4.

2. Healing Arts
This program is designed for degree-seeking students planning for admission to professional schools in the healing arts (medicine, dentistry, osteopathy, veterinary medicine, etc.) who are specializing in Chemistry in college.
The following courses are prescribed: Chemistry 101, 102, 103, 104, 107, 108, 109, 110; Mathematics 1, 2, 5, 6; Physics 1, 2; Biology 103, 104.

3. Teaching
This program (major in Science, concentration in Chemistry) is designed for prospective secondary school teachers whose principal interest is Chemistry and who wish to be certified in Physical Science, Science, and General Science.
The following courses are prescribed by the Department of Chemistry: Biology 3, 4, 21, 22, Chemistry 101, 102, 103, 104, 107, 108, History 116, Mathematics 1, 2, Physics 1, 2, 11, 12.

The curriculum of students beyond the first year must be arranged in consultation with the head of the Department of Education.

A student presenting six credits in General Chemistry may satisfy the prerequisite for an advanced course by taking Course 102, for which one credit will be given.

1. General Chemistry.

A development of the history, facts, and theories of the chemistry of the more common elements, including an introduction to organic and nutritional chemistry. For the non-science students this general course is offered as a terminal course and provides an understanding of the basic theories and principles of both inorganic and organic chemistry with related laboratory experience. Course 1, 2 may not be substituted for 101, 102 by students planning to major in chemistry. Two hours of lecture and three hours of laboratory work per week. Three semester hours.
2. General Chemistry. 
A continuation of Course 1. Prerequisite, Course 1. Two hours of lecture and three hours of laboratory work per week. *Three semester hours.*

101. General Chemistry. 
A detailed study of the theories and laws of inorganic chemistry, covering the common elements of the periodic system with their practical and industrial application. This course is accompanied by work in the mathematical solution of chemical problems and is prerequisite to advanced chemistry courses. Three hours of lecture and recitation and three hours of laboratory work per week. *Four semester hours.*

102. General Chemistry. 
A continuation of Course 101. Prerequisite, Course 101. Three hours of lecture and recitation and three hours of laboratory work per week. *Four semester hours.*

103. Qualitative Analysis. 
The physico-chemical basis of analytical chemistry; analysis of the common cations and some of the anions. Prerequisite, Course 101, 102. Three hours lecture and three hours of laboratory work per week. *Four semester hours.*

104. Quantitative Analysis. 
A study of the most acceptable methods of gravimetric and volumetric analysis. Prerequisite, Course 103. Three hours of lecture and three hours of laboratory work. *Four semester hours.*

105. Qualitative Analysis. 
A continuation of Course 104. Prerequisite, Course 103, 104. *Four semester hours.*

107. Organic Chemistry 
The study of the properties, synthesis, and structure of the most important classes of the carbon compounds. Prerequisite, Course 101, 102 or equivalent. Three hours of lecture and three hours of laboratory work per week. *Four semester hours.*

108. Organic Chemistry 
A continuation of Course 107. Prerequisite Course 107. Three hours of lecture and three hours of laboratory work per week. *Four semester hours.*

107A. Organic Chemistry 
The study of the properties, synthesis, and structure of the most important classes of the carbon compounds. Pre-requisite, Course 101, 102, or equivalent. Three hours of lecture and six hours of laboratory per week, lecture sessions are held jointly with Chemistry 107. This course is required for students whose major is chemistry. *Five semester hours.*

108A. Organic Chemistry 
A continuation of Course 107A. Prerequisite, Course 107A. Three hours of lecture and six hours of laboratory work per week. This course is required for students whose major is Chemistry. *Five semester hours.*

109. Physical Chemistry 
The course includes a study of the states of matter, the properties of solution, atomic structure, radio-activity, and other topics. Prerequisites, Physics 1, 2; Mathematics 5, 6; Courses 104; 105 and 107, 108. Three hours of lecture and three hours of laboratory work per week. *Four semester hours.*
110. Physical Chemistry  
A continuation of Course 109. Prerequisite, Course 109. Three hours of lecture and three hours of laboratory work per week. Four semester hours.

117. Advanced Inorganic Chemistry.  
The study of the classification of inorganic compounds; the theory of the chemical bond, complex compounds and their properties, and isomerization and resonance of inorganic compounds. Two hours of lecture and three hours of laboratory per week. Prerequisite, Course 104, 105. Three semester hours.

118. The Identification of Organic Compounds.  
The classification and identification of organic compounds based on physical and chemical properties; the chemical analysis of organic functional groups and the preparation of characteristic derivatives. Two hours of lecture and three hours of laboratory per week. Prerequisite, Course 107, 108. Three semester hours.

*120. Seminar.  
Papers and reports in Physical Chemistry. One hour per week. One semester hour.

*121. The Literature of Chemistry.  
The use of books, journals, and reports in the field of Chemistry. Open to third-year and fourth-year students. Prerequisites, Course 107, 108 and German 3, 4, one hour per week. One semester hour.

122. Seminar in Organic Chemistry.  
Reports on recent advances in Organic Chemistry. One hour per week. One semester hour.

CLASSICAL LANGUAGES  
PROFESSOR DONALD BAKER

The chief objective of the Classics Department is to develop in the student accuracy in thought and verbal expression. Other objectives are to enlarge the student's perspective by introducing him to a civilization other than his own; to increase his knowledge and understanding of the literature and institutions of England and America by studying the Greek and Roman sources from which they came; to encourage in the student a mastery of two languages which are important tools in many fields.

Students majoring in Classical Languages are required to take at least 12 semester hours of Greek and 12 semester hours of Latin, beyond Latin 2. In the first half of his senior year, each student must take the Seminar in Classical Studies, Greek 7. In the examination at the close of this course, he will be expected to show a satisfactory general knowledge of Greek and Roman literature, language, art, history, geography, mythology, religion, and private life. For this examination the student is expected to prepare himself (with the advice and help of the instructor) throughout his previous three years both by courses and by outside reading.

*This course is not offered in 1959-1960.
COURSES OF INSTRUCTION

GREEK

1. Beginning Greek. | DR. BAKER
Six hours per week. Six semester hours.
Course 1 may be elected by students in any major field.

2. Intermediate Greek. | DR. BAKER
Three hours per week. Three semester hours.
Prerequisite, Greek I or its equivalent.

3, 4, 5, 6. Advanced Greek | DR. BAKER
Readings from Homer, Thucydides, Aristophanes, and other authors depending on the preferences and capacities of those electing the course. Only one of these courses will be given in any one semester. Three semester hours.

7. Seminar in Classical Studies. | DR. BAKER
A study of selected topics dealing with the Greco-Roman world. Knowledge of Greek and Latin is a prerequisite. Three hours per week. Three semester hours.

8. New Testament Greek. | DR. BAKER
Three hours per week. Three semester hours.
Prerequisite, Greek 2.

LATIN

1. Elementary Latin. | DR. BAKER
A study of the grammar, syntax, and vocabulary, with emphasis upon the Latin elements in English words. Reading of passages from various authors. Three hours per week. Three semester hours.

2. Elementary Latin continued. | DR. BAKER
Three semester hours.

3, 4. Ovid, Virgil. | DR. BAKER
Each three semester hours.
Prerequisite, Latin 2 or its equivalent.

5, 6, 7, 8, 9, 10, 11, 12. Advanced Latin. | DR. BAKER
The instructor will arrange with students electing these courses to read authors of one period or literary type, or authors whose works may be correlated with other fields of study, e.g., philosophy, history, law. Not more than two of these courses will be given in any one semester. Each of them carries three semester hours credit.
Prerequisite, Latin 4 or its equivalent.

22. Preparation for Teaching Latin. | DR. BAKER
For third-year or fourth-year students. Three hours per week. Three semester hours.

DRAFTING AND DESCRIPTIVE GEOMETRY

1. Drafting | MR. MARSTELLER
Freehand lettering, use of instruments, geometric construction, freehand sketching, orthographic projection including auxiliary views, sectioning, axonometric projection,
oblique projection, intersections, developments, fasteners, dimensioning, working drawings, shop processes, reproduction methods, graphs. Six hours laboratory per week. *Three semester hours.*

2. **Descriptive Geometry**

Principles of projection, problems involving the essential relations of points, lines and planes, surfaces of revolution, warped surfaces, intersections, developments. Six hours laboratory per week. *Three semester hours.*

**ECONOMICS AND BUSINESS ADMINISTRATION**

**PROFESSOR BOSWELL**

**PROFESSOR BONE**

**ASSISTANT PROFESSOR SYMONS**

**ASSISTANT PROFESSOR RAFETTO**

**MR. MAC MURRAY**

**MR. WALKER**

The work in the department of Economics and Business Administration is designed to give (1) a knowledge of economic philosophy; (2) a knowledge of the structure and functioning of our economy; (3) a suitable background for those who wish to enter business or graduate school.

Students majoring in this department must take a minimum of thirty (30) semester hours of work in the department, including Courses 3 and 4, and twelve (12) semester hours of work in Political Science, including Course 1-2.

A student may, if he wishes, concentrate in Accounting, Economics, Finance, or Industrial Relations, as is indicated by the grouping of courses as shown below:

**Accounting:** Economics 3, 4, 6, 11, 12, 15, 19, 20; Mathematics 11-12, 13-14; Electives in the department: six (6) semester hours.

**Economics:** Economics 3, 4, 8, 9, 10, 14, 17, 21; Electives in the department: twelve (12) semester hours.

**Finance:** Economics 3, 4, 6, 9, 10, 11, 12, 13, 15; Mathematics 11-12.

**Industrial Relations:** Economics 3, 4, 5, 18, 22, 23; Electives in the department: twelve (12) semester hours.

3. **Economic Principles.**

A survey of the general principles which underlie the functioning of our economic system. Special attention is given to the roles played by each of the factors of production, and to the pricing process. *Three semester hours.* Economics 3 is prerequisite for all other courses.

4. **Economic Problems.**

A study of current economic problems, their impact on our society, and a critical analysis of proposed solutions. Among the problems considered are inflation, taxation, price controls, and monopolistic tendencies in business and labor, and our economic relations to other countries. *Three semester hours.* Economics 4 is a prerequisite for all other courses except Economics 3.

5. **Labor Problems.**

A study of human relations arising from industrial organizations and the employers' part in bringing about industrial peace. Prerequisite, Courses 3, 4. Three hours per week. *Three semester hours.*
MR. SYMONS  
A study of the financial aspects of business management, including the financing of corporations. Prerequisite, Courses 3, 4. Three hours per week. Three semester hours.

7. Marketing.  
MR. SYMONS  
A survey of the marketing mechanism and a comparative study of the most usual methods and practices. Prerequisite, Courses 3, 4. Three hours per week. Three semester hours.

8. Foreign Trade.  
MR. SYMONS  
The principles of foreign trade; relation of foreign trade to national prosperity; foreign trade policies of the more important countries. Prerequisite, Courses 3, 4 and 7. Three hours per week. Three semester hours.

9. Money and Banking.  
DR. BOSWELL  
A study of monetary and banking theories followed by an analysis of the services and methods of operation of our commercial banks. Prerequisite, Courses 3, 4. Three hours per week. Three semester hours.

10. Investments.  
DR. BOSWELL  
A survey of the various types of investment opportunities available. A study of methods of analyzing securities and timing their purchase or sale. Prerequisite, Courses 3, 4, 9. Three hours per week. Three semester hours.

MR. BONE  
Fundamental principles involved in the proprietorship and partnership form of organization. Adjusting and closing the books, preparation of statements and working papers. Problems and systematic practice set accompany the work. Prerequisite, Courses 3, 4. Four hours per week. Three semester hours.

MR. BONE  
Principles involved in the corporate form of organization, including large enterprises and manufacturing types of business. Problems, questions and a systematic practice set accompany the work. Four hours per week. Three semester hours.

MR. SYMONS  
A study of the general principles of public expenditures, public revenues, public indebtedness, and financial administration. Attention will be given to the principles and workings of the Federal Income Tax law. There will be class assignments in solving actual income tax problems. Prerequisite, Courses 3, 4. Three hours per week. Three semester hours.

MR. SYMONS  
A study of the financing of railroad construction in the United States; rate making, routing, personal and territorial discrimination, competition and consolidation; state and federal legislation and regulation; government operation; criticisms of some of the proposed solutions of our railway problems. Prerequisites, Courses 3, 4. Three hours per week. Three semester hours.

MR. BONE  
An introductory course covering the fundamental procedures governing contracts, sales, agency, bailments, negotiable instruments, real and personal property. Lectures,
readings, and study of cases and problems. Three hours per week. Prerequisite, Courses 3, 4. Three semester hours.

17. Business Organization. MR. RAFFETTO
A study of the forms of business organizations—the historical background and the reasons for their development. Governmental control of large organizations with special attention given to the problems of monopolies. Prerequisite, Courses 3, 4. Three hours per week. Three semester hours.

18. Industrial Management. MR. RAFFETTO
Historical background of industrial management, organization, physical plant, standardization, time study, wage payment, methods, control of production, planning and operation, executive control. Prerequisites, Courses 3, 4. Three hours per week. Three semester hours.

19. Intermediate Accounting. MR. BONE
A study of advanced principles and the application of principles to the analysis of problems. Analysis of profits, application of funds, capital expenditures and depreciation policies, inventory valuation, installment accounts, branches, consolidated statements. Two hours per week. Two semester hours. Prerequisite, Economics 11, 12.

20. Introductory Cost Accounting. MR. BONE
A study of the fundamental principles of cost accounting. Methods of finding the cost of specific orders or lots, fundamentals of process costs, accounting for by-products and joint products, estimate costs, and standard costs. Prerequisite, Courses 11, 12. Two hours per week. Two semester hours.

21. History of Economic Thought. DR. BOSWELL
Attention is devoted largely to a study of the Physiocratic, Classical, and Neo-Classical writers. Prerequisite, Courses 3, 4. Three hours per week. Three semester hours.

22. Personnel Management. MR. RAFFETTO
An examination of methods of selecting and training workers; also the development of policies designed to build and maintain worker morale. Prerequisite, Courses 3, 4. Three hours per week. Three semester hours.

23. Labor Law and Social Security. MR. RAFFETTO
An examination of labor legislation, the social security program, and workmen’s compensation, as they affect labor organization policies, employer policies, terms of collective bargaining agreements, and their relation to employment, living standards, and the general public welfare. Prerequisite, Courses 3, 4. Three hours per week. Three semester hours.

Mathematics of Finance. See Mathematics, Courses 11-12 and 13-14, p. 70.

EDUCATION

PROFESSOR TYSON
PROFESSOR MESSINGER

PROFESSOR MINNICH
ASSOCIATE PROFESSOR FLETCHER

The Department of Education provides the professional courses required for certification of Secondary School teachers in Pennsylvania, New Jersey, Delaware and Maryland. Students preparing for requirements of other states should consult the Head of the Department for information concerning specific requirements of those states. In
planning its curriculum, the Department has in mind five specific areas in which the growth of students is to be stimulated:

1. To increase their awareness of the functions of the school in modern society;
2. To understand the changing philosophies of education which are advanced with the changes occurring in society;
3. To increase their understanding of the nature of growth and development of human beings;
4. To understand how learning takes place;
5. To understand the methods used by the school in gaining its objectives.

The Department of Education regards the preparation of teachers to be a function of the College as a whole.

Students preparing for teaching must take the following courses:

- Spring semester of their second year, Education 2.
- Fall semester of their third year, Education 3, 7.
- Spring semester of their third year, Education 4 and a special methods course in their major field.
- Fall semester of their fourth year, Student Teaching.

2. *Introduction to Teaching in Secondary Schools.*

The characteristics of teaching as a profession with special reference to secondary education; the nature and interests of adolescents; the task of secondary schools in the United States contrasted with those in other countries; the organization of secondary education to meet the needs of pupils. Three hours per week during the second semester of the second year. *Three semester hours.*

3. *Educational Psychology.*

The native equipment of the learner; the relationship of heredity and environment; the inheritance of human traits; the principles of growth and development; physical, emotional, social and mental development; the principles of learning; transfer of training. Prerequisites, Psychology 1 and Education 2. Three hours per week during the first semester of the third year. *Three semester hours.* (*The same course as Psychology 5*).


The application of the principles of educational psychology to teaching in the secondary school; the teacher as a guide of learning; the activities in which the teacher is called upon to engage. This course is required by the Department for all persons who expect to qualify for practice teaching. Prerequisite, Courses 2, 3, 7. Three hours per week. *Three semester hours.*

5. *Student Teaching.*

A laboratory course in student teaching consisting of observation, participation and teaching in neighboring high schools, with individual and group conferences. Consult the instructor for the requirements of different states. Required to complete certification. Open only to fourth-year students who meet the personality and scholastic requirements. This course is given in the fall term, and only six hours of additional work can be carried with it. Prerequisite, Courses 2, 3, 4, 7, and the special methods course in the student’s major field. *Eight semester hours.*
7. The History and Philosophy of Education. Dr. Messinger
The development of educational ideas as they influence the present. The evolution of present practices with the underlying philosophies. Prerequisite, Psychology 1 and Course 2. Three hours per week during the first semester of the third year. Three semester hours.

10. Educational and Psychological Tests and Measurements. Dr. Fletcher
An introductory survey of the field of measurement in education, including measurement of intelligence and school results; main features of the technique of testing and test construction; types of tests and scales; evaluation; interpretation; use. Prerequisite, Course 3. Three hours per week offered in the first term. Three semester hours. (Same course as Psychology 6).

12. The Teaching of Science in the Secondary School. Dr. Tyson
This course is designed to acquaint the prospective teacher with the purposes and problems of the teaching of science in the secondary school. The chief topics include the development of objectives, the organization of typical curricula, and the methods used in both junior and senior high schools. Required of third-year students who are preparing to teach science. Three hours per week. Three semester hours.

Selection and interpretation of subject matter in accordance with the following aims: (1) local, national and international issues, (2) cultural inheritance. Methods of engendering and developing desirable social concepts in secondary school students. Demonstrations; field trips; study of the tools of learning, including visual aids; cooperative planning and evaluation. Three hours per week. Three semester hours.

For similar courses in other fields see English 25, German 21, Latin 22, Mathematics 18, Physical Education 5-6, and Romance Languages 21.

24. Visual and Auditory Aids. Dr. Fletcher
A study of the design, construction, and application of the combined visual and auditory aids to learning; anatomy and physiology of the eye and ear; the psychology of sensation and perception and its application in the use of slides, charts, motion pictures, and models. Review of applied research projects dealing with audio-visual aids to instruction and learning. Three hours per week. Three semester hours.

Minimum Academic Requirements for Certification of Secondary-School Teachers in Pennsylvania *

1. English ........................................ 18 s. h. 6. Social Studies
2. Mathematics ................................... 18 s. h. History ..................................... 9 s. h.
3. Any Foreign Language ...................... 18 s. h. Sociology .................................. 5 s. h.
4. Geography .................................... 18 s. h. Political Science ......................... 5 s. h.
5. History ....................................... 18 s. h. Economics ................................. 5 s. h.

*Students should consult the Head of the Department of Education for an explanation of the above chart.
7. Science
   Physics ........................................ 3 s.h.
   Chemistry .................................... 3 s.h.
   Botany ....................................... 3 s.h.
   Zoology ...................................... 3 s.h.
   Related Physical Science.............. 3 s.h.
   Related Biological Science. 3 s.h.

8. Biological Science
   Botany ....................................... 6 s.h.
   Zoology ...................................... 6 s.h.
   Related Biological Science. 6 s.h.

9. Physical Science
   Physics ........................................ 6 s.h.
   Chemistry .................................... 6 s.h.
   Related Physical Science..... 6 s.h.

10. General Science
    (Ninth grade science)
    18 semester hours in any or all of the sciences.

Requirements for Certification of Secondary-School Teachers in New Jersey

Authorization: To teach endorsed subject fields in grades seven to twelve.

1. A bachelor's degree based upon an accredited curriculum in a four-year college.

2. A minimum of thirty semester hours of credit in general background courses distributed in at least three of the following fields: English, social studies, science, fine arts, mathematics, and foreign languages. Six semester hours of credit in English and six in social studies will be required.

3. A minimum of eighteen semester hours of credit in courses distributed over four or more of the following groups including at least one course in A, B and C below.

   A. Methods of Teaching. This group includes such courses as
      (1) methods of teaching in secondary schools, (2) visual aids in education, and (3) individual instruction.

   B. Educational Psychology. This group includes such courses as
      (1) psychology of learning, (2) human growth and development, (3) adolescent psychology, (4) educational measurements, and (5) mental hygiene.

   C. Health Education. This group includes such courses as
      (1) personal health problems, (2) school health problems, (3) nutrition, (4) health administration, and (5) biology.

   D. Curriculum. This group includes such courses as
      (1) principles of curriculum construction, (2) the high school curriculum, (3) a study of the curriculum in a specific field, and (4) extra-curricular activities.

   E. Foundations of Education. This group includes such courses as
      (1) history of education, (2) principles of education, (3) philosophy of education, (4) comparative education and educational sociology.

   F. Guidance. This group includes such courses as
      (1) principles of guidance, (2) counselling, (3) vocational guidance, (4) educational guidance, (5) research in guidance, and (6) student personnel problems.

4. One teaching field is required.
   (Consult the Department of Education for required work and the number of hours within each teaching field.)

5. One hundred and fifty clock hours of approved student teaching. At least ninety clock hours must be devoted to responsible classroom teaching. Sixty clock hours may be employed in observation and participation.
TERM. The limited certificate may be made permanent when the applicant completes three years of successful teaching experience within the scope of the certificate. Permanent certification requires 24 additional hours in a subject matter field.

ENGLISH

PROFESSOR MCCLUORE
PROFESSOR YOST
PROFESSOR PHILLIPS
PROFESSOR BAKER
ASSOCIATE PROFESSOR DOLMAN

ASSOCIATE PROFESSOR STOREY
ASSISTANT PROFESSOR JONES
ASSISTANT PROFESSOR KERSHNER
ASSISTANT PROFESSOR SCHELHASE
MR. HUDNUT

This department offers instruction in the knowledge and use of the English language, a study based on the premise that language is the indispensable tool in the life and labor of civilized man and is the art through which he most fully expresses his spirit. Its courses in literature provide opportunity to form an extensive acquaintance with English and American literature and to understand individual works as unique artistic creations and as products of a historical and social process. The ultimate aim is to implant a discriminating appreciation for the best that has been written in our civilization.

Students majoring in English must take the following courses: English Literature 3, 4; 5, 6; 7, 8, 9, 10; 11, 12; 19, 20; History 109, 110 or 111, 112; 113, 114.

Students preparing for graduate study in English should elect French and German as their modern languages. Study in classical languages is strongly recommended for such students.

COMPOSITION

1. *First Year Composition.*
   The fundamental grammar of English; the study and writing of expository prose.
   Three hours per week. *Three semester hours.*

2. *First Year Composition.*
   Continuation of Course 1; training in the critical reading of prose and verse. Pre-requisite, Course 1. Three hours per week. *Three semester hours.*
   Course 2 is prescribed for all students.

3. *Second Year Composition.*
   Problems of functional writing; expository methods and practice. Prerequisite, Courses 1 and 2. One hour per week. *One semester hour.*
   Course 3 is prescribed for all students.

4. *Second Year Composition.*
   Continuation of Course 3. Prerequisite, Course 3. One hour per week. *One semester hour.*
   Course 4 is prescribed for all students.

5. *Advanced Composition.*
   Discussion of and practice in current types of fictional writing, with emphasis on the short story. Prerequisites, Courses 1, 2, 3, 4. Two hours per week. *Two semester hours.*
6. Advanced Composition.  
Discussion of and practice in non-fictional writing with an introduction to basic forms of journalism. Prerequisites, Courses 1, 2, 3, 4. Two hours per week. Two semester hours.

*7. Advanced Composition  
A course in descriptive writing and an introduction to the various creative forms used in Composition 8. Prerequisites, Courses 1, 2, 3, 4. Two hours per week. Two semester hours.

*8. Advanced Composition.  
A conference course in creative writing offering the student opportunity to practice his favorite type of composition. Enrollment is limited to twelve qualified students by arrangement with the instructor. Prerequisites, Courses 1, 2, 3, 4. Individually scheduled. Two semester hours.

Courses 5 and 6 alternate with Courses 7 and 8.

LITERATURE

The history of English Literature from the beginning to the end of the neo-classical era. Special attention is given to the social background. Two hours per week. Two semester hours.

A continuation of course 3 to the present. Two hours per week. Two semester hours. Courses 3, 4 are prescribed for second-year students majoring in English and are elective for second-year students in other major fields.

*5. The English Essay. Eighteenth Century  
A study of the essay and non-fictional prose from the age of Queen Anne to the end of the eighteenth century. Three hours per week. Three semester hours.

Course 5 is prescribed for third-year and fourth-year students majoring in English and is elective for third-year and fourth-year students in other fields.

A study of the essay and non-fictional prose from Lamb to Stevenson. Three hours per week. Three semester hours.

Course 6 is prescribed for third-year and fourth-year students majoring in English and is elective for third-year and fourth-year students in other fields.

A study of English poetry from 1790 to the death of Byron. The decline of neo-classicism; the romantic movement. Three hours per week. Three semester hours.

Course 7 is prescribed for third-year and fourth-year students majoring in English and is elective for third-year and fourth-year students in other major fields.

* This course is not offered in 1959-1960.

A study of the poetry of Tennyson and his contemporaries. Three hours per week. *Three semester hours.*

Course 8 is prescribed for third-year and fourth-year students majoring in English and is elective for third-year and fourth-year students in other fields.


The reading of Shakespeare's principal plays and the study of their background. Three hours per week. *Three semester hours.*


Continuation of Course 9. Course 9 is not a prerequisite for Course 10. Three hours per week. *Three semester hours.*

Courses 9 and 10 are prescribed for third-year and fourth-year students majoring in English and are elective for third-year and fourth-year students in other major fields.

Courses 9 and 10 alternate with Course 16.

11. *History of the English Language.*

Introduction to Anglo-Saxon and the history of the English Language. Two hours per week. *Two semester hours.*

12. *History of the English Language.*

Continuation of Course 11. Prerequisite 11. Two hours per week. *Two semester hours.*

Course 11-12 is prescribed for second-year students majoring in English and is elective in other major fields.


English poetry from 1890 to the present. Two hours per week. *Two semester hours.*

Course 15 is elective for all students.


The development of narrative and lyric poetry. Two hours per week. *Two semester hours.*

Course 16 is elective for all students.


A reading course in the development of the novel from its origin to the present. Two hours per week. *Two semester hours.*

Course 17 is elective for all students.

18. *Modern Drama.*

A reading course in the modern European and American drama from Ibsen to the present. Two hours per week. *Two semester hours.*

Course 18 is elective for all students.


A survey of American literature from its beginnings to the Civil War. Three hours per week. *Three semester hours.*

---

*This course is not offered in 1959–1960.*

American literature from the Civil War to the present. Prerequisite, Course 19. Three hours per week. *Three semester hours.*

Course 19-20 is prescribed for third-year and fourth-year students majoring in English and is elective for second-year, third-year and fourth-year students in other major fields.


A study of the major authors of ancient Greece and Rome, with a view to understanding the background of European and English literature. Two hours per week. *Two semester hours.*

22. *Classics in Translation.*

Continuation of Course 21. Two hours per week. *Two semester hours.*

Courses 21, 22 are elective for third-year and fourth-year students.


A seminar in the reading and interpretation of English and American poetry. Prerequisite, Course 3-4. Three hours per week. *Three semester hours.*

Course 24 is elective for fourth-year students, with the permission of the instructor.

25. *Teachers' Course.*

The study and teaching of English; a consideration of problems, materials, and methods. Three hours per week. *Three semester hours.*

Course 25 is elective for third-year students majoring in English. Others are admitted only by special permission.

**FRENCH**

See under *Romance Languages.*

**GEOGRAPHY**

See *History 128.*

**GERMANIC LANGUAGES**

**PROFESSOR HARTZELL**

The German Department strives to encourage the student to read, translate, write, and speak German well.

The reading material is chosen with the principles of Ursinus College in mind.

**GERMAN**

Students majoring in German must take the following courses: German 5, 6; 7, 8; 9, 10; 13-14 and 21; twelve (12) semester hours study in another language.

1. *Elementary German*

Elements of pronunciation; essentials of grammar. Three hours per week. *Three semester hours.*

This course is elective for all students who do not offer German for admission.

2. *Elementary German*

Continuation of German 1. Review of essentials of grammar; reading of simple prose and poems. Three hours per week. *Three semester hours.*
3. Intermediate German. DR. HARTZELL
Grammar review; reading of more difficult German prose and poetry, composition, and conversation.
This course is required of those who have had two years of high school German and elect to continue the study of German in college. Three hours per week. Three semester hours.

4. Intermediate German. DR. HARTZELL
Continuation of German 3. The student is encouraged to develop facility in reading, writing, and speaking German. Three hours per week. Three semester hours.

5. Advanced German Reading. DR. HARTZELL
Reading of material which will give background for the understanding of Goethe's Faust. Three hours per week. Three semester hours.

6. Goethe's Faust. DR. HARTZELL
A careful study of the text of Goethe's Faust I and parts of Faust II and the Urfaust. Three hours per week. Three semester hours.

7. German of the Classic Period. DR. HARTZELL
The masterpieces of Lessing and Klopstock. Two hours per week. Two semester hours.

8. German of the Classic Period. DR. HARTZELL
The masterpieces of Schiller and Goethe. Two hours per week. Two semester hours.

*9. Literature of the Nineteenth Century. DR. HARTZELL
A careful reading of representative works of the Nineteenth Century. Two hours per week. Two semester hours.

*10. Literature of the Twentieth Century. DR. HARTZELL
A careful reading of representative works of the Twentieth Century. Gerhart Hauptmann, Kafka, Thomas Mann, Schnitzler and Wiechert are the writers whose works are studied. Two hours per week. Two semester hours.

*11. Scientific German DR. RICE
Reading and careful translation of original works in scientific fields. Two hours per week. Two semester hours.

*12. Scientific German DR. RICE
Continuation of German 11. Readings may be assigned in scientific journals. Individual consultations. Two hours per week. Two semester hours.

13. Writing and Speaking German. DR. RICE
Practice in the oral elements of the language; written composition. Two hours per week. Two semester hours.

14. Writing and Speaking German. DR. RICE
Continuation of German 13. Increased emphasis upon speaking German. Two hours per week. Two semester hours.

21. Teachers' Course. DR. HARTZELL, DR. RICE
Required of majors for the purpose of integrating the students' whole field of concentration. Three hours per week. Three semester hours.

* This course is not offered in 1959-1960.
SWEDISH

Study in Swedish is open to students who have completed the language requirement for graduation.

1. *Swedish Language and Culture.*
   
   **DR. RICE**
   
   Grammar, reading, and lectures on cultural background. Three hours per week. *Three semester hours.*

2. *Swedish Language and Culture.*
   
   **DR. RICE**
   
   Continuation of Swedish 1. Students completing this course will be able to read Danish and Norwegian as well as Swedish. Three hours per week. *Three semester hours.*

*3. Advanced Swedish.*

**DR. RICE**

Readings in Swedish literature, including selections from Danish and Norwegian. Three hours per week. *Three semester hours.*

*4. Advanced Swedish.*

**DR. RICE**

Continuation of Swedish 3. More readings in Swedish literature, including selections from Danish and Norwegian. Three hours per week. *Three semester hours.*

GREEK

See under *Classical Languages.*

HEALTH AND PHYSICAL EDUCATION

**PROFESSOR MINNICH**

**PROFESSOR BAILEY**

**PROFESSOR SNELL**

**PROFESSOR MESSINGER**

**ASSOCIATE PROFESSOR GURZYNSKI**

**ASSOCIATE PROFESSOR WIENEKE**

**MRS. SHILLINGFORD**

**MR. ZDANOWICZ**

**MR. KLOCK**

The Health and Physical Education Department of Ursinus College includes two distinct functions: the Service Program, and the Professional Course for Teachers. The Service Program includes the requirement of two periods per week in Physical Education and Health classes for all students in the Freshman year; organization of a diversified intramural program for all men and women; and ample provision of facilities for free play activities in numerous outdoor sports and activities.

The Professional Program for teachers is a four-year course offered for the training of teachers of Health and Physical Education. It is designed to give specific training in the field of Health and Physical Education in the framework of accepted Liberal Arts education.

Students majoring in Health and Physical Education must take the following courses: Physical Education 1, 2; 3; 5, 6; 7, 8; 9, 10; 14; 16, 17; 19; 20; 22; 201, 202; 203, 204; 205, 206; 207, 208; Chemistry 1, 2; Biology 3; 1 or 2; 17, 18.

GENERAL PHYSICAL EDUCATION ACTIVITIES

101. A basic course in physical activities, designed for the development of organic vigor and the essential neuro-muscular skills. It aims to provide the student with

*This course is not offered in 1959-1960.*
creative activities which may be valuable in later life and to create situations which may foster satisfactory social and moral outcomes. Seasonal activities of both group and individual nature are provided. *This course is a requirement for graduation for all students except those majoring in physical education, and must be completed in the first year.* Two hours per week. *Not a credit course.*

102. Continuation of Course 101. *This course is a requirement for graduation for all students except those majoring in physical education, and must be completed in the first year.* Two hours per week. *Not a credit course.*

**PROFESSIONAL COURSES**

1. *Introduction to Physical Education.* MISS SNELL
   An orientation course dealing with the interpretation, objectives, and current problems in physical education. Two hours per week. *Two semester hours.*

2. *Principles and History of Physical Education.* MISS SNELL
   An historical analysis of the physical education principles, philosophies, and activities of man from primitive to modern times. Two hours per week. *Two semester hours.*

3. *Community Recreation Programs.* MR. BAILEY
   A comprehensive analysis of the leisure-time problem. An examination of the nature, scope, need and function of community recreation programs, and of the social and economic forces affecting them. Three hours per week. *Three semester hours.*

4. *Leadership in Camp and Club Activities.* MR. GURZYNISKI
   Discussion of the principles, characteristics, and processes of leadership in light of their significance to directors of camp and club activities. Three hours per week. *Three semester hours.*

5. *Principles and Methods of Teaching Physical Education.* MISS SNELL
   Principles, methods, and problems of teaching physical educational activities at the elementary and secondary school levels. Open only to physical education majors and minors or students who have completed six hours in Education. Two hours per week. *Two semester hours.* (Second term.)

6. *Methods of Health Instruction.* MISS SNELL
   Analysis of the principles, materials and methods involved in the teaching of health at different age levels. Open only to physical education majors or students who have completed six hours in Education. Two hours per week. *Two semester hours.* (First term.)

7, 8. *Principles and Methods of Coaching and Officiating.* MISS SNELL, MR. GURZYNISKI AND STAFF
   This course is designed with particular reference to the needs of prospective coaches and officials. Opportunities for practice in coaching and officiating are given in connection with the intramural and required physical education programs. Two classroom hours and one hour of practice per week. *Four semester hours.*

9. *Administration of Health, Physical Education, and Recreation.* MR. BAILEY
   A study of the administrative problems in health, physical education and recreation. Three hours per week. *Three semester hours.* (Second term.)
This course aims to familiarize the student with the nature, function, and history of specific tools of measurement in the field of health and physical education and to give him working knowledge and experience in the use of essential statistical procedures. Three hours per week. *Three semester hours.* (First term.)

The scope, responsibility, and function of the health education program in the school with particular stress upon the phases of healthful school living, health service, and safety education. Two hours per week. *Two semester hours.*

16. *First Aid.* **MRS. SHILLINGFORD**
Preventive procedures and emergency treatment for all types of common injuries. A course designed to give the student directed practice in the application of first aid knowledge. Red Cross Advanced First Aid Certificate may be obtained by those who satisfy the requirements. Two hours per week. *One semester hour.*

17. *Care and Prevention of Athletic Injuries.* **MRS. SHILLINGFORD**
This course deals with the causes of common injuries incident to athletic competition and stresses methods of prevention and treatment. Two hours per week. *One semester hour.*

19. *Mechanical-Anatomical Analysis of Activities, Kinesiology.* **MR. GURZYNSKI**
An anatomical analysis of the mechanics of body movement and position. A study of the fundamental anatomical concepts in relation to the development of physical education skills. Prerequisite, Biology 17-18. Two hours per week. *Two semester hours.*

20. *Physical Education for Atypical Children.* **MR. BAILEY**
An analysis of the general conditions producing atypical children, of the biological and physiological aspects involved, and of the resultant psychological and sociological problems. Methods are given for the selection and classification of these individuals and for the adaption of of activities to meet their needs. Three hours per week. *Three semester hours.*

22. *Physiology of Activity.* **MR. GURZYNSKI**
The physiological phenomena underlying physical activity. The anticipatory, immediate, and after effects of exercise on the different organs and the organism as a whole. Class discussion and laboratory demonstration. Prerequisite, Biology 17-18. Two hours per week. *Two semester hours.*

201. *First-Year Activities.*
Physical education activities of a seasonal nature make up the major content of the course, with general emphasis on those of a team or group nature. Stress is placed upon the teaching and mechanical analysis of the individual skills and fundamental techniques. Study is made of the characteristic forms of different folk dances and their music. Outdoor activities include (men) football, touch football, soccer, speedball, tennis, softball, baseball, track, and field; (women) soccer, speedball, tennis, hockey, softball, track and field. The indoor activities for both men and women in-
clude marching tactics, calisthenics, apparatus work, folk dancing, group games, self-testing activities, basketball. Six hours per week. *Two semester hours.*

202. Continuation of Course 201. *Two semester hours.*

203. Second-Year Activities.
A continuation of Course 201-2 with added emphasis upon methods of teaching and the development of strategy and team play. Attention is given to the selection, adaptation, and use of music suitable for the various types of rhythmic activities. The following outdoor activities are included: (men) football, touch football, soccer, speedball, tennis, softball, baseball, track, field, canoeing, aquatic activities; (women) soccer, speedball, tennis, hockey, softball, track, field, canoeing, aquatic activities. Indoor activities for both men and women include marching tactics, calisthenics, apparatus work, stunts, tumbling, self-testing activities, group games, rhythms, tap dancing, basketball. Six hours per week. *Two semester hours.*

204. Continuation of Course 203. Six hours per week. *Two semester hours.*

205. Third-Year Activities.

206. Continuation of Course 205. Six hours per week. *Two semester hours.*

207. Fourth-Year Activities.
A continuation of Course 205 and Course 206. New activities are included and added emphasis is placed upon some of the more important individual sports already covered. A portion of this course is given over to review and to examinations for a comprehensive rating in physical education. The work in this course includes (men and women) archery, riding, golf, badminton, swimming, life saving, deck tennis, paddle tennis, quoits, horseshoes, canoeing, aquatic activities; (men) boxing; (women) modern dancing. Opportunity is given for original composition. Six hours per week. *Two semester hours.*

208. Continuation of Course 207. Six hours per week. *Two semester hours.*

**HISTORY**

PROFESSOR ARMSTRONG  
PROFESSOR BAKER  
PROFESSOR E. H. MILLER  
ASSISTANT PROFESSOR DAVIS  
ASSISTANT PROFESSOR PARSONS  
ASSISTANT PROFESSOR FOSTER

The objectives of the History Department are to provide an opportunity for students to understand the backgrounds of Western culture and their relationship to the whole world, to illuminate their chosen fields with a knowledge of pertinent historical material, and to become acquainted with the methods of objective historical research analysis.

In addition to History 1-2, students majoring in history must take Course 113-114; six additional semester hours of European history; ten semester hours in elective history courses, including one seminar; Economics 3, 4; Political Science 1, 2, and Sociology 1.
1. European Civilization.  
DR. ARMSTRONG AND STAFF  
An introductory history of Europe for the purpose of providing a general historical background for other courses and for an understanding of contemporary world affairs. Required of all students for graduation, and pre-requisite for all other history courses. Two lectures and one section meeting per week. *Three semester hours.*

2. European Civilization.  
DR. ARMSTRONG AND STAFF  
Prerequisite History I. Continuation of Course 1. Required of all students for graduation. Two lectures and one section meeting per week. *Three semester hours.*

*103. Medieval Institutions.*  
DR. FOSTER  
A study of selected economic, social, cultural, religious, and political institutions essential to the understanding of the period from the fall of Rome to the Renaissance. Three hours per week. *Three semester hours.* (Alternates with 111.)

104. The Renaissance and the Reformation.  
DR. ARMSTRONG  
A study of humanism and religion in the 15th and 16th centuries. Three hours per week. *Three semester hours.* (Alternates with 126.)

105. The Age of Enlightenment.  
MR. DAVIS  
The development of the European state system 1648-1815, the Enlightenment, the French Revolution and the Napoleonic Era. Three hours per week. *Three semester hours.* (Alternates with 121.)

106. The Age of Romanticism.  
MR. DAVIS  
European romanticism and nationalism 1815-1870. Three hours per week. *Three semester hours.* (Alternates with 122.)

107. The World Since 1870.  
DR. ARMSTRONG  
A study of the impact of industrialization, neo-imperialism, and nationalism upon European peoples and their overseas empires 1870-1914. Three hours per week. *Three semester hours.* (Alternates with 109.)

108. The World Since 1870.  
DR. ARMSTRONG  
A continuation of Course 107 covering the period 1914 to the present. Three hours per week. *Three semester hours.* (Alternates with 110.)

DR. ARMSTRONG  
A history of the English people with special attention to political and constitutional developments to 1600. Three hours per week. *Three semester hours.* (Alternates with 107.)

*110. England and the British Empire.*  
DR. ARMSTRONG  
A continuation of Course 109 with special attention to political and imperial developments since 1600. Three hours per week. *Three semester hours.* (Alternates with 108.)

111. English Social History.  
DR. FOSTER  
A study of the daily life of the English people. Three hours per week. *Three semester hours.* (Alternates with 103.)

*This course is not offered in 1959-1960.*
112. English Social History. 
DR. FOSTER
A continuation of Course 111. Three hours per week. Three semester hours. (Given in alternate years.)

113. The United States of America. 
DR. PARSONS AND MR. DAVIS
Political and social history from colonial status to World Power with special emphasis on Pennsylvania. This course is prescribed for all students majoring in history and for any others who are preparing to teach social studies. Three hours per week. Three semester hours.

114. The United States of America. 
DR. PARSONS AND MR. DAVIS
A continuation of Course 113. Prescribed for all students majoring in history and for any others preparing to teach social studies. Three hours per week. Three semester hours.

*115. American Diplomatic History. 
MR. DAVIS
A study of American diplomacy from the treaty of 1783 to the present, including an analysis of the various factors which determine that policy: public opinion, population, world markets and international organization. Three hours per week. Three semester hours. (Given alternate years.)

DR. PARSONS
A survey of United States history, particularly as it concerns Pennsylvania. This course is not open to history majors or to any student seeking certification in social studies. Three hours per week. Three semester hours.

*117. Latin America. 
DR. E. H. MILLER
Political and cultural backgrounds of South and Central American nations and their relation to the interests and policy of the United States. Three hours per week. Three semester hours. (Alternates with 123.)

*118. Latin America. 
DR. E. H. MILLER
A continuation of Course 117. Three hours per week. Three semester hours. (Alternates with 124.)

119. Greek History 
DR. BAKER
Studies in the political, social, and economic life of ancient Greece. Two hours per week. Two semester hours.

120. Roman History. 
DR. BAKER
This course deals especially with the government of the Roman Republic, the transition to Empire, and the causes of its decline. Two hours per week. Two semester hours.

*121. The Middle East. 
MR. DAVIS
The ancient civilization of Egypt, Babylonia, Persia, Greece, and the Byzantine Empire. The Moslem World and the Middle East in modern times. Three hours per week. Three semester hours. (Alternates with 105.)

* This course is not offered in 1959-1960.
*122. The Middle East.  
Mr. Davis  
Prerequisite course 121. A continuation of Course 121. Three hours per week. Three semester hours. (Alternates with 106.)

123. The Far East.  
Dr. E. H. Miller  
History of the Asiatic Mainland and the Pacific Islands. Three hours per week. Three semester hours. (Alternates with 117.)

124. The Far East.  
Dr. E. H. Miller  
A continuation of Course 123. Three hours per week. Three semester hours. (Alternates with 118.)

126. Canada.  
Dr. Armstrong  
The development of the Canadian people from colonial status to nationhood. Three hours per week. Three semester hours. (Alternates with 104.)

127. History of Western Art.  
Dr. Armstrong  
An introduction to the history of architecture, sculpture and painting presented by means of illustrated lectures and museum trips. Two hours per week. Two semester hours.

*128. Geography.  
Mr. Davis  
Extensive study of the major regions of the world. The purpose is to analyze each from the standpoint of climate, natural resources, and economic problems, and to give the student a fairly detailed knowledge of the physical geography of the regions. Three hours per week. Three semester hours.

129, 130. Seminar in European History.  
Members of the Staff  
Preparation and discussion of research papers in European history. Open to third and fourth year students with permission of the instructor. Two consecutive hours per week. Four semester hours.

Members of the Staff  
Preparation and discussion of research papers in American history. Open to third and fourth year students with permission of the instructor. Two consecutive hours per week. Four semester hours.

ITALIAN  
See under Romance Languages.

LATIN  
See under Classical Languages.

MATHEMATICS  
Professor Manning  
Assistant Professor Schultz  
Professor Dennis  
The aims of the Mathematics Department are (1) the development of an appreciation of the role of mathematics in the progress of civilization, both past and present; (2) the development of the ability to do abstract, logical thinking by the analysis of  

* This course is not offered in 1959-1960.
the various deductive systems of mathematics; and (3) the development of special techniques which can be utilized in the related fields of physics, chemistry, biology, psychology and economics.

A student majoring in mathematics will take Mathematics 1a, 2a and 3, 4 in the first year; Mathematics 5, 6 and Physics 1, 2 (to satisfy the general requirement in science) in the second year. A student majoring in mathematics must elect a minimum of twelve additional hours from courses numbered 7 to 28 inclusive.

1. Algebra
   DR. MANNING, DR. DENNIS, MISS SCHULTZ
   A basic course introducing the student to some of the modern concepts in mathematics which are useful in present day applications of mathematics in many fields. Some of the topics introduced include Boolean algebra, symbolic logic, number systems, groups, finite and infinite fields, and algebraic functions. Three hours a week. Three semester hours.

2. Trigonometry.
   DR. MANNING, DR. DENNIS, MISS SCHULTZ
   A continuation of Course 1. The general theory of functions is extended to include the trigonometric functions and their inverses, the logarithmic and exponential functions, analytic geometry and an introduction to probability theory and statistics. Three hours a week. Three semester hours.

1a. College Algebra.
   DR. MANNING
   A review of fundamental manipulations; solving and graphing equations; mathematical induction; binomial theorem; proportion; progressions; laws of logarithms; probability; determinants; partial fractions; and series. Designed for students majoring in mathematics and physics and for those interested in engineering. Three hours a week. Three semester hours.

2a. Plane and Spherical Trigonometry.
   DR. MANNING
   Trigonometric functions; inverse functions; solution of right and oblique triangles; use of slide rule; identities and equations; computations with logarithms; complex numbers; right spherical and oblique spherical triangles; applications to navigation and astronomy. Three hours a week. Three semester hours.

   DR. DENNIS
   This course is designed to acquaint the student with the analytic method of treating locus problems. The fundamental theorems on distance, angle, and area are shown to be invariant under translations and rotations. Linear, polynomial, rational, and algebraic functions are graphed and the conics are studied extensively, with respect to transformations and invariants. Three hours a week. Three semester hours.

   DR. DENNIS
   Higher plane curves; empirical equations; transcendental functions; tangents; pole and polar theory continue the analytic treatment in the plane. The course includes the plane and straight line in space, space curves and surfaces, with particular reference to the quadrics and ruled surfaces. Three hours a week. Three semester hours. Prerequisite, Mathematics 3.

5. Elementary Calculus.
   DR. MANNING, MISS SCHULTZ
   Functions; limits; differentiation and integration of algebraic and transcendental functions. Three hours a week. Three semester hours.
A continuation of Course 5. Applications of the calculus to problems in science and engineering. Three hours a week. *Three semester hours.* Prerequisite, Mathematics 5.

Solution of first-order and first-degree equations; linear equations of higher order; complementary and particular solutions; integrating factors; operators; applications in the fields of chemistry and physics. Three hours a week. *Three semester hours.* Prerequisite, Mathematics 6.

8. Theory of Equations.  
Real and complex roots of higher-degree equations; approximations of roots; determinants and matrices; symmetric functions. Three hours a week. *Three semester hours.* Prerequisite, Mathematics 6.

Elementary functions for complex values of the variables; Taylor's series; partial differentiation and implicit functions; multiple integration; improper integrals; line integrals and functions of a complex variable. Three hours a week. *Three semester hours.* Prerequisite, Mathematics 6.

10. Advanced Calculus.  
A continuation of course 9. Gamma functions; Legendre polynomials; Bessel functions; elliptic integrals; Fourier series; calculus of variations. Three hours a week. *Three semester hours.* Prerequisite, Mathematics 9.

Operation of interest in relation to the amortization of debts; creation of sinking funds; treatment of depreciation. Two hours a week. *Two semester hours.*

A continuation of Course 11. Valuation of bonds; accumulation of funds in building-and-loan associations; elements of life insurance. Two hours a week. *Two semester hours.* Prerequisite, Mathematics 11.

Probability; statistical methods of studying data from the fields of economics, education and the natural sciences; graphs; averages; dispersion; sampling. Two hours a week. *Two semester hours.*

A continuation of Course 13. Regression and correlation; forecasting; quality control; production control; testing hypotheses; analysis of variance. Two hours a week. *Two semester hours.* Prerequisite, Mathematics 13.

15. Theory of Numbers.  
Theory of primes and divisibility conditions; simple continued fractions; congruences; Fermat's theorem; Wilson's theorem; quadratic residues; reciprocity law; linear indeterminate problems; Diophantine equations. Three hours per week. *Three semester hours.*

* This course is not offered in 1959-1960.
DR. DENNIS  
Fundamental theorems of finite groups; permutation groups; groups of movement; Abelian groups; prime-power groups; isomorphisms and the composition-series; Galois fields and their applications to finite geometries; groups of linear substitutions; Galois theory of equations. Three hours per week. Three semester hours.

*17. Teachers' Course.  
DR. DENNIS  
History of mathematics; logical aspects of mathematical systems; principal methods of presentation of mathematical topics; examination of the contents of standard high-school courses; this course is designed to develop an appreciation of the role mathematics has played in the development of civilization and to perfect the technique of presentation of subject matter. Three hours per week. Three semester hours.

DR. DENNIS  
Similarity; theorems of Ceva and Menelaus; points, lines, and circles related to the triangle; Brocard's configuration; coaxial circles; inversion; poles and polars; cross-ratio; involution; Pascal's and Brianchon's theorems; ruler and compass constructions. Three hours a week. Three semester hours.

*19. Finite Differences.  
DR. MANNING  
Numerical calculus; difference tables; difference equations; successive approximations; starter and corrector formulas; gamma and digamma functions; mechanical quadrature. Three hours per week. Three semester hours.

*20. Probability.  
DR. MANNING  
Simple and compound probability; repeated trials; runs; normal curve approximation; Bertrand's paradox; deMere's problem; St. Petersburg problem. Three hours per week. Three semester hours.

DR. DENNIS  
Elementary vector algebra and calculus with applications to geometry and physics; scalar and vector fields; gradient; divergence; curl; divergence theorem; Green's theorem; Stokes' theorem; coordinate systems and transformation theory; non-Euclidean manifolds. Three hours per week. Three semester hours. Prerequisite, Mathematics 6.

DR. DENNIS  
Algebra of complex numbers; analytic functions; Cauchy-Riemann equations; conformal mapping; integrals of complex functions; Cauchy's theorem; power series; Taylor's theorem; Laurent's theorem; residues and poles; transformations; analytic continuation; Riemann surfaces. Three hours per week. Three semester hours. Prerequisite, Mathematics 6.

DR. MANNING  
A weekly set of problems from various fields. This course may be begun in any term and continued for as many as four terms. One hour per week. One semester hour for each term. Prerequisites, Mathematics 4 and 6.

27, 28. Astronomy.  
See Physics, courses 11, 12.

* This course is not offered in 1959-1960.
COURSES OF INSTRUCTION

MUSIC

PROFESSOR PHILIP    MISS SPANGLER

The program in music is designed to meet the needs of non-professional music students and to promote a wider knowledge and appreciation of the history, theory, and performance of great music. The program comprises classroom instruction and opportunities for individual and group participation.

A. THEORY OF MUSIC

1. Elementary Harmony.
   A thorough foundation in the melodic, rhythmic, and harmonic elements of music; keys, scales, intervals, cadences, major and minor chords; rhythmic reading and dictation, time durations, and the study of compound and simple measures. Prerequisite, one year of piano study or of musical theory. Two hours per week. Two semester hours.

2. Elementary Harmony.
   A continuation of Music 1. Prerequisite, Music 1. Two hours per week. Two semester hours.

B. APPRECIATION OF MUSIC

   This course covers the early development of music through religious music, folk song and folk dance, and follows their progress to the larger forms of musical composition. Two hours per week. Two semester hours.

   A continuation of Music 13. The further development of music is traced into the symphonic and operatic fields of composition. Prerequisite, Music 13. Two hours per week. Two semester hours.

C. HISTORY OF MUSIC

   Introduction to choral and instrumental music of the ancient and medieval period. Two hours per week. Two semester hours.

   A continuation of Music 15. This course deals with the music of the Eighteenth Century, the Romantic period, and the Twentieth Century. Prerequisite, Music 15. Two hours per week. Two semester hours.

17. Opera and Orchestral Music.
   A detailed analysis of symphonic music. Two hours per week. Two semester hours.

18. Opera and Orchestral Music.
   A detailed analysis of proven operatic compositions. Two hours per week. Two semester hours.

   An intimate discussion and the detailed analysis of Wagner's works. Two hours per week. Two semester hours.

Course 19 alternates with Courses 17, 18.
D. Musical Organization

21a, 22a. Band.
Participation in the marching and the concert band. Two hours per week. Not a credit course.

21b, 22b. Band
Second year. Continuation of first-year work. Two hours per week. Not a credit course.

21c, 22c. Band
Third year. Continuation of second-year work. Two hours per week. Not a credit course.

21d, 22d. Band
Fourth year. Continuation of third year work. Two hours per week. Not a credit course.

27a, 28a. Vocal Ensemble and Methods.
A study of the basic principles of ensemble technique, vocal characteristics, and various types of voices. Discussion and study of the musical literature of the different periods. Practical application of principles studied as well as participation with the Ursinus Meistersingers in public concerts. Two hours per week. Not a credit course but a prerequisite for Music 27b, 28b.

27b, 28b. Vocal Ensemble and Methods.
Second year. Continuation of first-year work. Two hours per week. Credit of one semester hour to be awarded at the conclusion of the year.

27c, 28c. Vocal Ensemble and Methods.
Third year. Concentration of second-year work. Two hours per week. Credit of one semester hour to be awarded at conclusion of the year.

27d, 28d. Vocal Ensemble and Methods.
Fourth year. Continuation of third-year work. Two hours per week. Not a credit course.

Not more than twelve semester hours in Music may be counted toward graduation.

PHILOSOPHY

Professor Mattern

The primary aim of the Department is to cultivate a sensitivity to criticism, to the weighing of evidence, the drawing of inferences, and the becoming aware of latent assumptions.

The secondary aim is to have the student read some of the writings of the philosophers so as to see for himself how philosophical problems spring from common sense opinions. It is hoped that such training may better enable the student to integrate the knowledge he has acquired in other departments.

One three-semester-hour course in Philosophy is required of every student for graduation.

Courses in Philosophy are open to third-year and fourth-year students, with the exception of Course 6. Course 6 is open also for second-year students.

Courses 5 and 6 are designed for students who do not plan to elect advanced courses in Philosophy.
1. Introduction to Philosophy.  
DR. MATTERN  
A preliminary course designed to give to the student orientation with reference to the fields and problems of philosophy. Three hours per week. Three semester hours.

DR. MATTERN  
This course is continuous with Course 1, but is a more intensive study of certain problems outlined in Course 1. Prerequisite, Course 1. Three hours per week. Three semester hours.

3. History of Ancient and Medieval Philosophy.  
DR. MATTERN  
This course is designed to assist the student in his interpretation of modern thought-currents by means of a history of the evolution of reflective thought from Thales to Descartes. Three hours per week. Three semester hours.

DR. MATTERN  
This course is a continuation of Course 3, beginning with Descartes and tracing the modern development to present philosophical tendencies. Prerequisite, Course 3. Three hours per week. Three semester hours.

5. Ethics.  
DR. MATTERN  
A study of the principles of moral judgment, with exposition and criticism of the more important theories concerning the basis of distinction between right and wrong conduct; the various problems of theoretical and practical ethics. Papers by students. Three hours per week. Three semester hours.

DR. MATTERN  
A study of the guiding principles involved in correct thinking; the use of terms; classification; the nature of deductive inference with special reference to fallacious forms of reasoning as they receive expression in daily life; the canons of inductive inference; the basic concepts in scientific method. Three hours per week. Three semester hours.  
Course 6 is open to second-year students.

7. Philosophy of Religion.  
DR. CREAGER  
A study of religious beliefs and practices in order to ascertain the nature and value of religion. Particular attention is given to questions involving the nature and reality of God, the problem of evil and suffering, free will, and immortality. Prerequisite, third-year standing. Three hours per week. Three semester hours.

PHYSICAL EDUCATION
See under Health and Physical Education.

PHYSICS
PROFESSOR HEILEMANN  
ASSISTANT PROFESSOR SNYDER  
ASSISTANT PROFESSOR MARSTELLER  
The courses in Physics are designed to furnish the student with a groundwork of as much of the material of physics as time will permit. In presenting this material stress is laid upon methods of analysis and presentation of ideas. It is hoped in this way to make the student conversant with the methods of Physics, to develop in him the ability to study independently and to transmit his ideas to others. In every course, and in the elementary course particularly, the primary aim is to make the subject meaningful to every intelligent student.
Students majoring in Physics must take the following courses: Physics 1, 2, 3, 4, 5, 6, 7, 8; Mathematics 1a, 2a, 3, 4, 5, 6, 7, 9, 10, 21; Chemistry 101, 102.

Students majoring in Physics who are preparing to teach in secondary schools may substitute courses in Education for the following courses: Physics 7, 8; Mathematics 21.

1. General Physics. 
   **DR. HEILEMANN, DR. SNYDER, MR. MARSTELLER**
   Elementary mechanics and heat. Physics is presented not only as a science having practical application to everyday life, but as an example in itself of general scientific method. Prerequisite, Mathematics 1, 2, or high-school trigonometry and a satisfactory rating in the Mathematical Aptitude section of the CEEB test or in some test of a similar nature. Although not a requirement, Mathematics 5 and 6 are strongly urged, to be pursued concurrently if not already completed. Three hours lecture and three hours laboratory per week. **Four semester hours.**

2. General Physics. 
   **DR. HEILEMANN, DR. SNYDER, MR. MARSTELLER**
   Elementary sound, light, electricity and magnetism. Prerequisite, Physics 1. Three hours lecture and three hours laboratory per week. **Four semester hours.**

   *Admission to advanced courses depends upon the quality of work done in the elementary course.*

   Students intending to elect any of the advanced courses are asked to confer with the instructor during the year prior to that in which the course is to be taken, in order that a satisfactory schedule may be arranged.

   **DR. HEILEMANN**
   Plane and space force systems; concurrent forces; moments; center of gravity; friction; motion; curvilinear motion; projectiles; D'Alembert's Principle; moment of inertia; equilibrium of a rigid body; kinematics; Newton's Laws; work and energy; harmonic motion rotation about a fixed axis; torsion pendulum; compound pendulum; coupled systems. Prerequisite, Mathematics 5 and 6. Three hours lecture and three hours laboratory per week. **Four semester hours.**

4. Electricity and Magnetism. 
   **DR. SNYDER**
   Gauss's Theorem; potential; capacity; electric and magnet circuit; Kirchhoff's Laws; inductance; alternating currents; electrical machinery; elements of electronics. Prerequisite, Mathematics 5 and 6. Three hours lecture and three hours laboratory per week. **Four semester hours.**

5. Optics. 
   **MR. MARSTELLER**
   Image formation; systems of lenses and mirrors; dispersion; spectra; interference and diffraction; polarization; origin of radiation; effects of radiation; applications. Three hours lecture and three hours laboratory per week. **Four semester hours.**

   **DR. HEILEMANN**
   The nature of sound, the physical basis of music, speech, and hearing; acoustics of buildings; methods of sound transmission and reproduction, and study of distortion; diffraction and interference; applications. Three hours lecture and three hours laboratory per week. **Four semester hours.**

   **DR. SNYDER**
   The elementary charged particles; electromagnetic radiation; waves and particles;
elementary theory of the hydrogen atom; atomic spectra and electron distribution; natural radioactivity; nuclear disintegration; nuclear energy. Prerequisite, Mathematics 5 and 6. Three hours per week. *Three semester hours.*

7a. *Laboratory in Atomic Physics.* DR. SNYDER Laboratory work (optional) for Course 7. Three hours per week. *One semester hour.*


8a. *Laboratory in Atomic Physics.* DR. SNYDER Laboratory work (optional) for Course 8. Three hours per week. *One semester hour.*

9. *Special Topics.* DR. HEILEMANN, DR. SNYDER, MR. MARSTELLER Readings and laboratory work with conferences. The student, having chosen some field in which he is interested, is expected to become familiar with the special instruments and methods of measurement used in that field. Only students capable of independent work may elect this course. Prerequisites, Mathematics 5 and 6 and two years of college physics. *Credit according to work done.*

10. *Special Topics.* DR. HEILEMANN, DR. SNYDER, MR. MARSTELLER Continuation of Course 9. *Credit according to work done.*

11. *Astronomy.* MR. MARSTELLER Facts and theories concerning the appearance, dimensions, motions, and interrelations of celestial bodies. Prerequisite, Mathematics 1 and 2 or its equivalent and some knowledge of physics. Three hours per week. *Three semester hours.*

12. *Astronomy.* MR. MARSTELLER Continuation of Course 11. Three hours per week. *Three semester hours.*

14. *Alternating Currents.* DR. SNYDER Capacitive and self-inductive circuits; mutual induction; the alternating-current circuit; alternating-current power and power factor; divided circuits; application of complex numbers; electro-magnetic waves. Prerequisites, Physics 4 and Mathematics 5 and 6. Three hours per week. *Three semester hours.*

**POLITICAL SCIENCE**

**PROFESSOR E. H. MILLER**

**STUDENT**

**ASSISTANT PROFESSOR ZUCKER**

**PROFESSOR PANCOAST**

The objectives of the Department of Political Science with relation to the general student are

(1) To help the student attain an appreciation of both the theory and the functioning of politics.

(2) To aid the student in developing the faculty of critical thinking and objective attitudes.

(3) "To teach those values that sustain faith in freedom."

The professional objectives are

(1) To prepare students for graduate work in political science and the law,
(2) To prepare students for the examinations for both the domestic civil service and the foreign service.

In addition to History 1-2 and Political Science 1-2, which are required for graduation under the general college requirements, students majoring in Political Science must take an additional sixteen (16) hours of Political Science (Political Science 5, 6 and ten elective hours); History 113-114; Economics 3, 4; Sociology 1-2.

It is recommended that Political Science 1-2 be taken in the first year, Political Science 5, 6 and Economics 3, 4 in the second year, and History 113-114 in the third year.

   An analysis of the structure and functions of American national and state governments. Three hours per week. *Three semester hours.*

   Continuation of Course 1. Three hours per week. *Three semester hours.*

   The legal power and position of the city in our political system. Thorough consideration of forms and activities of city government. Three hours per week. *Three semester hours.*

4. *Political Parties.*
   Both structural description and functional analysis of American political parties. The organization, work, leaders, and place of political parties in our democracy are considered at length. Three hours per week. *Three semester hours.*

5. *Comparative Government.*
   A detailed comparison of the Cabinet and Presidential systems, as exemplified by England and the United States. Three hours per week. *Three semester hours.*

   The study is extended to other representative governments, including France, Germany, Italy, Russia and Japan. Three hours per week. *Three semester hours.*

7. *Political Theory.*
   Significant political ideas, forces, and concepts from Plato to the present. Three hours per week. *Three semester hours.*

   Historical backgrounds and principles formulated by the United States Supreme Court receive special emphasis. In addition to a textbook, extensive use is made of case studies. Three hours per week. *Three semester hours.*

   A survey of the field of public administration, emphasizing administrative organization, fiscal management, and personnel management. The administrative process is considered as a unit encompassing federal, state, and local administration. Three hours per week. *Three semester hours.*

    Main currents in American political thought from the seventeenth century to the
present. Three hours per week. *Three semester hours.
11. Seminar in Political Science. DR. MILLER
Selected topics in international organization and international relations. Two hours per week. *Two semester hours.
12. Seminar in Political Science. DR. MILLER
Continuation of Seminar in Political Science 11. Two hours per week. *Two semester hours.
13. Seminar in Political Science. DR. MILLER
International Law. The case-study method. Two hours per week. *Two semester hours.
14. Seminar in Political Science. DR. MILLER
Continuation of Seminar in Political Science 13. Two hours per week. *Two semester hours.
*Open only to third-year and fourth-year students.
Courses 11, 12 alternates with Courses 13, 14.

PSYCHOLOGY
PROFESSOR TYSON ASSOCIATE PROFESSOR FLETCHER

The Department of Psychology is guided in its offerings and activities by two sets of objectives: (1) For the student majoring in areas other than Psychology, the introductory course for all, and Abnormal Psychology and Mental Hygiene for many, endeavor to show the growth of modern psychology and an understanding of adjustments used in maintaining mental health; and (2) an attempt is made to present a composite view of the main phases of present-day psychology, which is based on a broad foundation in social science and the biological sciences.

Students majoring in Psychology must take the following courses: Biology 3, 21, 22; Mathematics 1-2, 13-14; Economics 3-4; Political Science 1-2 and Sociology 1-2; Psychology 1, 4, 5, 6, 7, 8, 10 and 12. Students who plan to continue the study of Psychology at the graduate level are strongly urged to include in their schedules Mathematics 5-6; Biology 17-18; Philosophy 3-4 and Physics 1-2.

1. Elementary Psychology. DR. TYSON, DR. FLETCHER
An introductory study of mental life and accompanying types of human behavior. Three hours per week. *Three semester hours.

Course 1 must be taken during the first semester of the second year by all students preparing to become teachers.

4. Social Psychology. DR. FLETCHER
A study of group action and of the group influences by which the individual is surrounded; tradition, custom, public opinion, and other psychological and social forces which affect individual judgment and action. Three hours per week. *Three semester hours. Permission of the instructor is required for admission to the course.

5. Educational Psychology. DR. TYSON
The native equipment of the learner; the relationship of heredity and environment; the inheritance of human traits; the principles of growth and development; physical, emotional, social and mental development; the principles of learning; transfer of train-

* This course is not offered in 1959-1960.
ing. Prerequisites, Psychology 1 and Education 2. Three hours per week during the first semester of the third year. Three semester hours. (The same course as Education 3.)


An introductory survey of the field of measurement in education, including measurement of intelligence and school results; main features of the technique of testing and test construction; types of tests and scales; evaluation; interpretation; use. Prerequisite. Course 5. Three hours per week. Three semester hours. (The same course as Education 10.)

7. Seminar in Psychology.

A course designed to acquaint the student with current trends in theoretical and applied psychology. Emphasis will be given to the preparation and presentation of papers on selected topics which will vary from year to year. Open only to fourth-year students majoring in psychology. One hour per week. One semester hour.

8. Abnormal Psychology and Mental Hygiene.

Abnormalities of sensation, perception, memory, thinking, emotion, intelligence, motor activity and personality; sleep, dreams, and phenomena of suggestion; critique of psychoanalytic theories; psychological aspects of neur tic and psychotic disorders. The course will be given from the point of view of preventive mental hygiene. Three hours per week. Three semester hours.

10. Elementary Experimental Psychology.

This course is designed to acquaint the student with laboratory techniques used in psychology. Limited to and required of all majors in psychology. Lectures, demonstrations, individual experiments and the preparation of scientific reports. Two hours lecture and four hours laboratory. Four semester hours.


This course deals with the application of psychological techniques and principles to the problems of industry. Emphasis is given to individual differences, aptitudes and skills, job evaluation, merit rating, work methods, training programs, fatigue, accident control, safety education, incentives, employee attitudes, morale, the interview and related employment methods. Three hours per week. Three semester hours. Permission of the instructor is required for admission to the course.

PUBLIC SPEAKING

ASSISTANT PROFESSOR KERSHNER

3. Public Speaking.

Composition and delivery of various types of speeches, with group criticism and discussion. The class will be organized and conducted according to the rules of parliamentary procedure. Prerequisite, English Composition 1, 2. Two hours per week. Two semester hours.

4. Public Speaking.

Continuation of course 3. Prerequisite, Public Speaking 3. Two hours per week. Two semester hours.
5. *Debating.*
This course is organized for both beginners and advanced students who are interested in debating in intramural and intercollegiate tournaments. Open to third-year students who have completed Public Speaking 3 and 4, or who have been members of the Debating Club for at least one year. The course may be repeated for credit in the senior year. One hour per week. *One semester hour.*

Continuation of course 5. One hour per week. *One semester hour.*

*Note: All students in the College may participate in the activities of the extra-curricular debating society without being enrolled in courses 5 and 6.*

---

**RELIGION**

**ASSOCIATE PROFESSOR CREAGER**
**PROFESSOR DONALD BAKER**
**PROFESSOR ARMSTRONG**

**PROFESSOR MATTERN**
**ASSISTANT PROFESSOR SCHELLHASE**
**ASSISTANT PROFESSOR DAVID BAKER**

The aim of the Department of Religion is to give opportunity for a scholarly and reverent study of religion, centering attention primarily upon the Hebrew-Christian tradition. The courses in the English Bible are considered basic to a liberal education. Philosophy of Religion, Church History, and Christian Classics are courses offered to afford opportunity for students to deepen their interest in the "heart truths" of religion. The department directs a religious program, led by students, which includes worship, service projects, counseling and discussion. The unique nature of our College lays responsibility upon every member of the faculty, administration, and student body to lend support to these objectives.

1. *Introduction to the Literature of the Bible: Old Testament.*
   *MR. SCHELLHASE*
   An appreciative and historical study of the Bible, with a view to discovering its origin, nature, and significance in the life of today. Three hours per week. *Three semester hours.*

   *MR. SCHELLHASE*
   Three hours per week. *Three semester hours.*

   *DR. CREAGER*
   Readings in the classics of Christian literature including the writings of such men as Augustine, St. Francis of Assisi, Thomas à Kempis, Fox, Law, Baxter, Woolman, and Temple. Three hours per week. *Three semester hours.* *(This course alternates in the Spring Term with Religion 6.)*

   *DR. CREAGER*
   A study of the development of the Christian church from the apostolic period to modern times, with a view to understanding the nature and extent of its contribution to society. Three hours per week. *Three semester hours.*

Course 4 alternates with Course 6.

The following related courses are recommended to students interested in the study of religion.

*This course is not offered in the Spring Term of 1960.*
HISTORY

104. The Age of the Reformation.
Three hours per week. Three semester hours.

PHILOSOPHY

5. Ethics.
Three hours per week. Three semester hours.

PHILOSOPHY

7. Philosophy of Religion.
Three hours per week. Three semester hours.

GREEK

Three hours per week. Three semester hours.

HISTORY

132. Seminar in Church History.
Two consecutive hours per week. Two semester hours. Students intending to select this course are asked to confer with the instructor.

ROMANCE LANGUAGES

FRENCH

French majors should meet the following requirements:
French 5, 6, 9, 15, 16; History 103, 104 or 105, 106; Latin 1, 2, 3, 4 (or equivalent, i.e., four years of Latin in secondary school).

One of the following courses: French 7, 8, 10; Two of the following courses: French 11, 12, 13, 14.

1. Elementary French.
Three hours per week. Three semester hours.

2. Elementary French.
Prerequisite: French 1. Three hours per week. Three semester hours.

Prerequisite: French 2 or equivalent (i.e., satisfactory completion of two years of French in secondary school). Three hours per week. Three semester hours.

Prerequisite: French 3. Three hours per week. Three semester hours.

For students planning further work in French. Prerequisite: French 2 or equivalent. Three hours per week. Three semester hours.
COURSES OF INSTRUCTION


5. Survey of French Civilization and Literature. The development of French life, arts and literature from the Middle Ages to the Revolution. Three hours per week. Three semester hours.

6. Survey of French Civilization and Literature. A continuation of course 5; from 1789 to the present. Three hours per week. Three semester hours.

*7. Rabelais, the Pléiade, Montaigne. Two hours per week. Two semester hours.

*8. Corneille, Racine. Two hours per week. Two semester hours.

9. Molière. Two hours per week. Two semester hours.

10. Voltaire, Rousseau. Two hours per week. Two semester hours. Courses 7 and 8 alternate with courses 9 and 10.

11. Seminar in French Literature 1800-1860. Three hours per week. Three semester hours.

12. Seminar in French Literature. Prerequisite: French 11. Three hours per week. Three semester hours.

*13. Seminar in French Literature since 1860. Three hours per week. Three semester hours.


15. Advanced Grammar. Two hours per week. Two semester hours.

16. Oral French. Two hours per week and additional laboratory work. Two semester hours.

21. Romance Languages. Preparation for teaching French. For third-year students. Three hours per week. Three semester hours.

22. Conversation. Prerequisite: French 16 and permission of the instructor. Two hours per week. Two semester hours.

ITALIAN
Study in Italian is open to students who have completed the language requirement for graduation.

*This course is not offered in 1959-1960.
1. *Elementary Italian.*
   Three hours per week. *Three semester hours.*

2. *Elementary Italian.*
   Prerequisite: Italian I. Three hours per week. *Three semester hours.*
   *MR. ROBERTS*

*3. Intermediate Italian.*
   Three hours per week. *Three semester hours.*
   *MR. WILCOX*

*4. Intermediate Italian.*
   Prerequisite: Italian III. Three hours per week. *Three semester hours.*
   *MR. WILCOX*

**SPANISH**

Spanish majors should meet the following requirements:
Spanish 5, 7, 8, 13, 14; History 117, 118, and 103, 104 or 105, 106; Latin 1, 2, 3, 4 (or equivalent, i.e., four years of Latin in secondary school).

1. *Elementary Spanish.*
   Three hours per week. *Three semester hours.*
   *MR. WILCOX*

2. *Elementary Spanish.*
   Prerequisite: Spanish I. Three hours per week. *Three semester hours.*
   *MR. WILCOX*

   Prerequisite: Spanish 2 or equivalent (i.e., satisfactory completion of two years of Spanish in secondary school). Three hours per week. *Three semester hours.*
   *MR. ROBERTS*

   Prerequisite: Spanish 3. Three hours per week. *Three semester hours.*
   *MR. ROBERTS*

3a. *Intermediate Spanish.*
   For students planning further work in Spanish. Prerequisite: Spanish 2 or equivalent. Three hours per week. *Three semester hours.*
   *DR. GARRETT*

4a. *Intermediate Spanish.*
   Prerequisite: Spanish 3a. Three hours per week. *Three semester hours.*
   *DR. GARRETT*

5. *Advanced Grammar.*
   Two hours per week. *Two semester hours.*
   *DR. GARRETT*

   Two hours per week. *Two semester hours.*
   *DR. GARRETT*

*7. Spanish Literature since 1800.*
   Two hours per week. *Two semester hours.*
   *MR. WILCOX*

   Two hours per week. *Two semester hours.*
   *MR. WILCOX*

   Two hours per week. *Two semester hours.*
   *MR. WILCOX*

    Prerequisite: Spanish 9. Two hours per week. *Two semester hours.*
    Courses 7 and 8 alternate with courses 9 and 10.

*This course is not offered in 1959-1960.*
COURSES OF INSTRUCTION

13. Advanced Composition and Conversation. Three hours per week. Three semester hours. 

14. Advanced Composition and Conversation. Three hours per week. Three semester hours.

Courses 13 and 14 alternate with courses 13 and 14.

21. Romance Languages. Preparation for teaching Spanish. For third-year students. Three hours per week. Three semester hours.

RUSSIAN

PROFESSOR HARTZELL

Study in Russian is open to students who have completed the language requirement for graduation.

1. Elementary Russian. Essentials of grammar; elements of conversation; reading. Three hours per week. Three semester hours.

2. Elementary Russian. Continuation of Russian 1. Emphasis upon reading and conversation. Three hours per week. Three semester hours.


SOCIODEY

DR. J. A. MILLER

1. Introduction to Sociology. A course designed to give the student a more scientific understanding of man's social nature and of the social world in which he lives. In addition to fundamental concepts and theories particular attention is focused on problems arising from race relations and personality disorganization. Not open to freshmen. Three hours per week. Three semester hours.

2. Introduction to Sociology. A continuation of Sociology 1. Problems to which particular attention is given include urbanization, public opinion and propaganda, marriage and the family, and crime and delinquency. Prerequisite, Course 1. Three hours per week Three semester hours.

SPANISH

See under Romance Languages

SWEDISH

See under Germanic Languages
# Departmental Requirements

## CLASSICS (B.A.)

**Adviser—Professor Baker**

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
<th>Third Year</th>
<th>Fourth Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eng. Comp. 1, 2</td>
<td>Eng. Comp. 3, 4</td>
<td>Pol. Sci. 1, 2 or</td>
<td>Philosophy</td>
</tr>
<tr>
<td>Hist. 1, 2</td>
<td>Eng. Lit. 3, 4</td>
<td>Econ. 3, 4</td>
<td>3</td>
</tr>
<tr>
<td>Greek 1, 2</td>
<td>Science</td>
<td>Latin or Greek</td>
<td>3</td>
</tr>
<tr>
<td>Latin 1, 2 or 3, 4</td>
<td>Greek, 3, 4</td>
<td>Electives</td>
<td>18</td>
</tr>
<tr>
<td>or 5, 6</td>
<td>Latin</td>
<td>Electives</td>
<td>21</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phys. Ed. 101, 102</td>
<td>Electives</td>
<td>Electives</td>
<td>3</td>
</tr>
<tr>
<td>30</td>
<td>30</td>
<td>30</td>
<td>30</td>
</tr>
</tbody>
</table>

## ECONOMICS AND BUSINESS ADMINISTRATION (B.A.)

**Adviser—Professor Boswell**

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
<th>Third Year</th>
<th>Fourth Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eng. Comp. 1, 2</td>
<td>Eng. Comp. 3, 4</td>
<td>Psych. 1</td>
<td>Philosophy</td>
</tr>
<tr>
<td>Hist. 1, 2</td>
<td>Eng. Lit. 3, 4</td>
<td>(or equiv.)</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>Science</td>
<td></td>
<td></td>
</tr>
<tr>
<td>or 9 (Acct.)</td>
<td>Foreign Language 3, 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>or 6, 9, 10 (Fin.)</td>
<td>Econ. 6, 11, 12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>or 5, 18 (Ind. Rel.)</td>
<td>Electives to complete</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>30</td>
<td>30</td>
<td>30</td>
</tr>
</tbody>
</table>

## ENGLISH (B.A.)

**Adviser—Professor Yost**

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
<th>Third Year</th>
<th>Fourth Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eng. Comp. 1, 2</td>
<td>Eng. Comp. 3, 4</td>
<td>Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>Hist. 1, 2</td>
<td>Eng. Lit. 3, 4</td>
<td>Eng. Lit. 5, 6 or 7, 8</td>
<td>Eng. Lit. 7, 8 or 5, 6</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>Science</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>or 9 (Acct.)</td>
<td>Econ.</td>
<td>or Eng. Lit. 9, 10 or</td>
<td>6</td>
</tr>
<tr>
<td>Econ. 3, 4 or</td>
<td>Psych. 1</td>
<td>Eng. Lit. 19, 20 or</td>
<td>18</td>
</tr>
<tr>
<td>Pol. Sci. 1, 2</td>
<td>Hist. 109,110 or 111,112</td>
<td>or 9, 10</td>
<td></td>
</tr>
<tr>
<td>or 5, 18 (Ind. Rel.)</td>
<td>Electives</td>
<td>History 113, 114</td>
<td>9</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>Electives</td>
<td>3</td>
</tr>
<tr>
<td>30</td>
<td>30</td>
<td>30</td>
<td>30</td>
</tr>
</tbody>
</table>

## GERMAN (B.A.)

**Adviser—Professor Hartelt**

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
<th>Third Year</th>
<th>Fourth Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eng. Comp. 1, 2</td>
<td>Eng. Comp. 3, 4</td>
<td>Ger. 5, 6 (if not</td>
<td>Ger. 9, 10 or</td>
</tr>
<tr>
<td>Hist. 1, 2</td>
<td>Eng. Lit. 3, 4</td>
<td>completed)</td>
<td>7, 8</td>
</tr>
<tr>
<td>Science</td>
<td>Psych. 1</td>
<td>Ger. 7, 8 or 9, 10</td>
<td>Ger. 13, 14 or</td>
</tr>
<tr>
<td>Ger. 1, 2 or 3, 4</td>
<td>Econ. 3-4 or</td>
<td>Ger. 11, 12 or 13, 14</td>
<td>11, 12</td>
</tr>
<tr>
<td>Other Language 1, 2</td>
<td>Pol. Sci. 1, 2</td>
<td>Additional language</td>
<td>4</td>
</tr>
<tr>
<td>or 5, 6</td>
<td>Ger. 3, 4 or 5, 6</td>
<td>Eng. Lit. 7, 8 or</td>
<td>3</td>
</tr>
<tr>
<td>or 3, 4</td>
<td>Other Language 3, 4</td>
<td>or 9, 10</td>
<td>Electives</td>
</tr>
<tr>
<td>Phys. Ed. 101, 102</td>
<td>Electives</td>
<td>Electives</td>
<td>4</td>
</tr>
<tr>
<td>30</td>
<td>30</td>
<td>30</td>
<td>30</td>
</tr>
</tbody>
</table>
# DEPARTMENTAL REQUIREMENTS

## HEALTH AND PHYSICAL EDUCATION (B.S.)

**Adviser—Professor Minnich**

### First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eng. Comp. 1, 2</td>
<td>6</td>
</tr>
<tr>
<td>Hist. 1, 2</td>
<td>6</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>6</td>
</tr>
<tr>
<td>Phys. Ed. 1, 2</td>
<td>4</td>
</tr>
<tr>
<td>Phys. Ed. 201, 202</td>
<td>4</td>
</tr>
<tr>
<td>Science (or equiv.)</td>
<td>6</td>
</tr>
</tbody>
</table>

### Second Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eng. Comp. 3, 4</td>
<td>2</td>
</tr>
<tr>
<td>Eng. Lit. 3, 4 or equiv.</td>
<td>4</td>
</tr>
<tr>
<td>Math. 1a, 2a</td>
<td>6</td>
</tr>
<tr>
<td>Phys. Ed. 101, 102</td>
<td>6</td>
</tr>
</tbody>
</table>

### Third Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Econ. 3, 4 or 5</td>
<td>3</td>
</tr>
<tr>
<td>Math. 1, 2</td>
<td>6</td>
</tr>
<tr>
<td>Phys. Ed. 203, 204</td>
<td>4</td>
</tr>
</tbody>
</table>

### Fourth Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>History 116</td>
<td><strong>3</strong></td>
</tr>
<tr>
<td>Electives</td>
<td>33</td>
</tr>
</tbody>
</table>

*Not a degree requirement; may be used for the completion of a minor if Foreign Language 3-4 is completed.

**Not a degree requirement; required for a Teacher’s Certificate in Health and Physical Education in Pennsylvania.

## HISTORY (B.A.)

**Adviser—Professor Armstrong**

### First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eng. Comp. 1, 2</td>
<td>6</td>
</tr>
<tr>
<td>Hist. 1, 2</td>
<td>6</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>6</td>
</tr>
<tr>
<td>Phys. Ed. 101, 102</td>
<td>6</td>
</tr>
</tbody>
</table>

### Second Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eng. Comp. 3, 4</td>
<td>2</td>
</tr>
<tr>
<td>Eng. Lit. 3, 4 or equiv.</td>
<td>4</td>
</tr>
<tr>
<td>Math. 3, 4 (if not completed)</td>
<td>6</td>
</tr>
<tr>
<td>Math. 5, 6</td>
<td>6</td>
</tr>
<tr>
<td>Econ. 3, 4 or 5</td>
<td>3</td>
</tr>
<tr>
<td>Psych. 1</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>30</td>
</tr>
</tbody>
</table>

### Third Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>Sociology</td>
<td>3</td>
</tr>
<tr>
<td>Hist. 103, 104, or 105, 106, 107, 108</td>
<td>6</td>
</tr>
<tr>
<td>Hist. Seminar</td>
<td>2</td>
</tr>
<tr>
<td>Electives</td>
<td>30</td>
</tr>
</tbody>
</table>

### Fourth Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math. 6</td>
<td>6</td>
</tr>
<tr>
<td>Electives</td>
<td><strong>34</strong></td>
</tr>
</tbody>
</table>

## MATHEMATICS (B.S.)

**Adviser—Professor Manning**

### First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eng. Comp. 1, 2</td>
<td>6</td>
</tr>
<tr>
<td>History 1, 2</td>
<td>6</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>6</td>
</tr>
<tr>
<td>Math. 1a, 2a</td>
<td>6</td>
</tr>
<tr>
<td>Phys. Ed. 101, 102</td>
<td>6</td>
</tr>
</tbody>
</table>

### Second Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eng. Comp. 3, 4</td>
<td>2</td>
</tr>
<tr>
<td>Eng. Lit. 3, 4 or equiv.</td>
<td>4</td>
</tr>
<tr>
<td>Math. 3, 4 (if not completed)</td>
<td>6</td>
</tr>
<tr>
<td>Math. 5, 6</td>
<td>6</td>
</tr>
<tr>
<td>Econ. 3, 4 or 5</td>
<td>3</td>
</tr>
<tr>
<td>Psych. 1</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td><strong>32</strong></td>
</tr>
</tbody>
</table>

### Third Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>Math. 6</td>
<td>6</td>
</tr>
<tr>
<td>Electives</td>
<td><strong>28</strong></td>
</tr>
</tbody>
</table>

## POLITICAL SCIENCE (B.A.)

**Adviser—Professor E. H. Miller**

### First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eng. Comp. 1, 2</td>
<td>6</td>
</tr>
<tr>
<td>History 1, 2</td>
<td>6</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>6</td>
</tr>
<tr>
<td>Phys. Ed. 101, 102</td>
<td>6</td>
</tr>
</tbody>
</table>

### Second Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eng. Comp. 3, 4</td>
<td>2</td>
</tr>
<tr>
<td>Eng. Lit. 3, 4 or equiv.</td>
<td>4</td>
</tr>
<tr>
<td>Math. 3, 4 (if not completed)</td>
<td>6</td>
</tr>
<tr>
<td>Econ. 3, 4 or 5</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>

### Third Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>Sociology</td>
<td>6</td>
</tr>
<tr>
<td>Hist. 113, 114</td>
<td>6</td>
</tr>
<tr>
<td>Electives</td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>

### Fourth Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pol. Sci.</td>
<td>6</td>
</tr>
<tr>
<td>Electives</td>
<td><strong>24</strong></td>
</tr>
</tbody>
</table>

*Not a degree requirement; may be used for the completion of a minor if Foreign Language 3-4 is completed.

**Not a degree requirement; required for a Teacher’s Certificate in Health and Physical Education in Pennsylvania.
### PSYCHOLOGY (B.S.)

**Adviser—Professor Tyson**

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
<th>Third Year</th>
<th>Fourth Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eng. Comp. 1, 2, 6</td>
<td>Eng. Comp. 3, 4, 2</td>
<td>Sociology 1, 2, 6</td>
<td>Philosophy, 3</td>
</tr>
<tr>
<td>History 1, 2, 6</td>
<td>Eng. Lit. 3, 4, 4</td>
<td>Math. 13, 14, 6</td>
<td>Psych. 5, 4, 6</td>
</tr>
<tr>
<td>Foreign Language, 6</td>
<td>(or equiv.)</td>
<td>Econ. 3, 4 or 12</td>
<td>Psych. 10, 4</td>
</tr>
<tr>
<td>Bio. 3, 4, 6</td>
<td>Foreign Language 3, 4</td>
<td>Pol. Sci. 1, 2, 6</td>
<td>Psych. 12, 3</td>
</tr>
<tr>
<td>Econ. 3, 4 or 6</td>
<td>(if not completed) 6</td>
<td>Psych. 5, 6, 11</td>
<td>Electives, 11</td>
</tr>
<tr>
<td>Pol. Sci. 1, 2, 6</td>
<td>Math. 1, 2, 6</td>
<td>Electives, 12, 13</td>
<td></td>
</tr>
<tr>
<td>Phys. Ed. 101, 102, 6</td>
<td>Psych. 1, 8, 6</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bio. 21, 22, 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Electives, 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30</td>
<td></td>
<td></td>
<td>30</td>
</tr>
<tr>
<td>30</td>
<td></td>
<td></td>
<td>30</td>
</tr>
<tr>
<td>30</td>
<td></td>
<td></td>
<td>30</td>
</tr>
<tr>
<td>30</td>
<td></td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

### ROMANCE LANGUAGES

### FRENCH (B.A.)

**Adviser—Professor Wilcox**

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
<th>Third Year</th>
<th>Fourth Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eng. Comp. 1, 2, 6</td>
<td>Eng. Comp. 3, 4, 2</td>
<td>Econ. 3, 4 or 6</td>
<td>Electives, 30</td>
</tr>
<tr>
<td>History 1, 2, 6</td>
<td>Eng. Lit. 3, 4, 4</td>
<td>Pol. Sci. 1, 2, 6</td>
<td></td>
</tr>
<tr>
<td>Science, 6</td>
<td>Psych. 1, 3, 4, 6</td>
<td>Philosophy, 3</td>
<td></td>
</tr>
<tr>
<td>Fr. 3a, 4a, 6</td>
<td>Fr. 5, 6, 7, 8</td>
<td>Hist. 103, 104 or 105, 106</td>
<td></td>
</tr>
<tr>
<td>Latin 1, 2, or 3, 4, 6</td>
<td>Fr. 9, 10 or 15, 16, 18</td>
<td>Fr. 11, 12 or 13, 14</td>
<td></td>
</tr>
<tr>
<td>Phys. Ed. 101, 102, 6</td>
<td>Latin 3, 4, 6 (if not</td>
<td>Electives, 5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>completed)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Electives, 7</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30</td>
<td></td>
<td></td>
<td>30</td>
</tr>
<tr>
<td>30</td>
<td></td>
<td></td>
<td>30</td>
</tr>
<tr>
<td>30</td>
<td></td>
<td></td>
<td>30</td>
</tr>
<tr>
<td>30</td>
<td></td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

### SPANISH (B.A.)

**Adviser—Professor Wilcox**

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
<th>Third Year</th>
<th>Fourth Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eng. Comp. 1, 2, 6</td>
<td>Eng. Comp. 3, 4, 2</td>
<td>Econ. 3, 4 or 6</td>
<td>Electives, 30</td>
</tr>
<tr>
<td>History 1, 2, 6</td>
<td>Eng. Lit. 3, 4, 4</td>
<td>Pol. Sci. 1, 2, 6</td>
<td></td>
</tr>
<tr>
<td>Spanish 3a, 4a, 6</td>
<td>Psych. 1, 3, 4, 6</td>
<td>Philosophy, 3</td>
<td></td>
</tr>
<tr>
<td>Latin 1, 2 or 3, 4, 6</td>
<td>Fr. 5, 6, 7, 8</td>
<td>Hist. 103, 104 or 105, 106</td>
<td></td>
</tr>
<tr>
<td>Phys. Ed. 101, 102, 6</td>
<td>Latin 3, 4, 6 (if not</td>
<td>Fr. 11, 12 or 13, 14</td>
<td></td>
</tr>
<tr>
<td></td>
<td>completed)</td>
<td>Electives, 5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Electives, 7</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30</td>
<td></td>
<td></td>
<td>30</td>
</tr>
<tr>
<td>30</td>
<td></td>
<td></td>
<td>30</td>
</tr>
<tr>
<td>30</td>
<td></td>
<td></td>
<td>30</td>
</tr>
<tr>
<td>30</td>
<td></td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

### SCIENCES

### BIOLOGY (B.S.)

**Adviser—Professor Wagner**

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
<th>Third Year</th>
<th>Fourth Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eng. Comp. 1, 2, 6</td>
<td>Eng. Comp. 3, 4, 2</td>
<td>Philosophy, 3</td>
<td>Bio. 7, 8 or 12</td>
</tr>
<tr>
<td>Foreign Language, 6</td>
<td>Eng. Lit. 3, 4, 4</td>
<td>Psychology, 3</td>
<td>Bio. 19 (Bio. 20 also</td>
</tr>
<tr>
<td>Hist. 1, 2 or</td>
<td>(or equiv.)</td>
<td>Pol. Sci. 1, 2, 6</td>
<td>recommended)... 8 or 4</td>
</tr>
<tr>
<td>Chem. 101, 102, 6</td>
<td>Foreign Language 3, 4</td>
<td>Ec. 3, 4, 6, 10</td>
<td>Bio. 21, 22, or both 4 or 2</td>
</tr>
<tr>
<td>Bio. 103, 104, 8</td>
<td>(if not completed) 6</td>
<td>Bio. 7, 8 or 10</td>
<td>Bio. 6, (if not pre-</td>
</tr>
<tr>
<td>Math. 1, 2, 4</td>
<td>Chem. 101, 102 or</td>
<td>Electives, 10 to 14</td>
<td>professional)</td>
</tr>
<tr>
<td>Phys. Ed. 101, 102, 6</td>
<td>Hist. 1, 2, 3, 4, 8 or 6</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Physics, 1, 2, 8, 9, 10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Electives, 4 to 10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>32 to 34</td>
<td>30 to 32</td>
<td>30</td>
<td>28 to 30</td>
</tr>
<tr>
<td>30</td>
<td></td>
<td>30</td>
<td>28 to 30</td>
</tr>
<tr>
<td>30</td>
<td></td>
<td>30</td>
<td>28 to 30</td>
</tr>
</tbody>
</table>
### CHEMISTRY (B.S.)

**Adviser—Professor Sturgis**

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
<th>Third Year</th>
<th>Fourth Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Comp. 1, 2</td>
<td>English Lit. 3, 4</td>
<td>Econ. 3, 4 or</td>
<td>Chem. 109, 110</td>
</tr>
<tr>
<td>Hist. 1, 2</td>
<td>Fr. or Ger. 1, 2</td>
<td>Pol. Sci. 1, 2</td>
<td>Chem. 121</td>
</tr>
<tr>
<td>or 3, 4</td>
<td>Fr. or Ger. 1, 2</td>
<td>Chem. 105</td>
<td>Chem. 117</td>
</tr>
<tr>
<td>Chem. 101, 102</td>
<td>(if not completed)</td>
<td>Chem. 107, 108</td>
<td>Chem. 118</td>
</tr>
<tr>
<td>Math. 1, 2</td>
<td>Chem. 104</td>
<td>Physics 1, 2</td>
<td>Electives</td>
</tr>
<tr>
<td>Phys. Ed. 101, 102</td>
<td>Math. 5, 6</td>
<td>Psych. 1</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Bio. 3, 4</td>
<td>Phil.</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>32</td>
</tr>
</tbody>
</table>

### PHYSICS (B.S.)

**Adviser—Professor Heilemann**

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
<th>Third Year</th>
<th>Fourth Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eng. Comp. 1, 2</td>
<td>Eng. Lit. 3, 4</td>
<td>Econ. 3, 4 or</td>
<td>Philosophy</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>Foreign Language 3, 4</td>
<td>Pol. Sci. 1, 2</td>
<td>Physics 7, 8</td>
</tr>
<tr>
<td>Math. 1, 2</td>
<td>History 1, 2</td>
<td>Psych. 1</td>
<td>Physics 7a, 8a</td>
</tr>
<tr>
<td>Math. 3, 4</td>
<td>Physics 3, 4</td>
<td>Physics 5, 6</td>
<td>Math. 21, 22</td>
</tr>
<tr>
<td>Phys. Ed. 101, 102</td>
<td>Math. 5, 6</td>
<td>Math. 7</td>
<td>Electives</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>32</td>
</tr>
</tbody>
</table>

### SCIENCE (B. S.)

Preparation for Secondary School Teaching in the Sciences

#### I. CONCENTRATION IN BIOLOGY

**Adviser—Professor Wagner and Professor Tyson**

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
<th>Third Year</th>
<th>Fourth Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 103, 104</td>
<td>Physics 1, 2</td>
<td>Lewisite 5</td>
<td>Philosophy</td>
</tr>
<tr>
<td>Mathematics 1, 2</td>
<td>Chemistry 1, 2</td>
<td>or</td>
<td>Physics 7, 8</td>
</tr>
<tr>
<td>History 1, 2</td>
<td>Biology 17, 18</td>
<td>or</td>
<td>Physics 7a, 8a</td>
</tr>
<tr>
<td>English Comp. 1, 2</td>
<td>Biology 21, 22</td>
<td>or</td>
<td>Math. 21, 22</td>
</tr>
<tr>
<td>Language 1, 2</td>
<td>English Comp. 3, 4</td>
<td>or</td>
<td>Electives</td>
</tr>
<tr>
<td>or 3, 4</td>
<td>English Lit. 3, 4</td>
<td>or</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Language 3, 4</td>
<td>or</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Pol. Sci. 1, 2</td>
<td>or</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Economics 3, 4</td>
<td>or</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Psychology 1</td>
<td>Education 2</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>14 or 15</td>
<td>Education 5</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>28 or 30</td>
<td>or</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>or</td>
<td>32</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Third Year</th>
<th>Credits</th>
<th>Fourth Year</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 17, 18</td>
<td>2</td>
<td>Biology 19</td>
<td>4</td>
</tr>
<tr>
<td>Biology 21, 22</td>
<td>2</td>
<td>Education 5</td>
<td>8</td>
</tr>
<tr>
<td>Biology 6</td>
<td>3</td>
<td>Electives</td>
<td>14</td>
</tr>
<tr>
<td>History 116</td>
<td>3</td>
<td>or</td>
<td>16</td>
</tr>
<tr>
<td>Philosophy</td>
<td>3</td>
<td></td>
<td>30</td>
</tr>
<tr>
<td>Education 3, 4</td>
<td>3</td>
<td></td>
<td>30-32</td>
</tr>
</tbody>
</table>
## II. CONCENTRATION IN CHEMISTRY

**First Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 101, 102</td>
<td>4</td>
</tr>
<tr>
<td>English Comp. 1, 2</td>
<td>3</td>
</tr>
<tr>
<td>Language 1, 2 or 3, 4</td>
<td>3</td>
</tr>
<tr>
<td>History 1, 2</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1, 2</td>
<td>3</td>
</tr>
<tr>
<td>Phys. Ed. 101, 102</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>16</td>
</tr>
</tbody>
</table>

**Second Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 3, 4</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry 107, 108</td>
<td>4</td>
</tr>
<tr>
<td>Education 2</td>
<td>3</td>
</tr>
<tr>
<td>English Comp. 3, 4</td>
<td>1</td>
</tr>
<tr>
<td>English Lit. 3, 4</td>
<td>2</td>
</tr>
<tr>
<td>Language 3, 4</td>
<td>3</td>
</tr>
<tr>
<td>Philosophy 6</td>
<td>(3)</td>
</tr>
<tr>
<td>History 116</td>
<td>3</td>
</tr>
<tr>
<td>Biology 21</td>
<td>(2)</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>16</td>
</tr>
</tbody>
</table>

**Third Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 103, 104</td>
<td>4</td>
</tr>
<tr>
<td>Economics 3, 4</td>
<td></td>
</tr>
<tr>
<td>or Pol. Sci. 1, 2</td>
<td>3</td>
</tr>
<tr>
<td>Education 3, 4</td>
<td>3</td>
</tr>
<tr>
<td>Education 7</td>
<td>3</td>
</tr>
<tr>
<td>Education 12</td>
<td>3</td>
</tr>
<tr>
<td>Physics 1, 2</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>17</td>
</tr>
</tbody>
</table>

**Fourth Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 22</td>
<td>2</td>
</tr>
<tr>
<td>Education 5</td>
<td>8</td>
</tr>
<tr>
<td>History 116</td>
<td>3</td>
</tr>
<tr>
<td>Physics 11, 12</td>
<td>3</td>
</tr>
<tr>
<td>Philosophy 7, (if Phil. 6 is not taken in second year)</td>
<td>3</td>
</tr>
<tr>
<td>Electives (Psych. 8 and Lit. 20)</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>14</td>
</tr>
</tbody>
</table>

## III. CONCENTRATION IN PHYSICS

**First Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Comp. 1, 2</td>
<td>3</td>
</tr>
<tr>
<td>Language 1, 2 or 3, 4</td>
<td>3</td>
</tr>
<tr>
<td>Phys. Ed. 101, 102</td>
<td></td>
</tr>
<tr>
<td>Physics 1, 2</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics 1a, 2a</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 3, 4</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>16</td>
</tr>
</tbody>
</table>

**Second Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Comp. 3, 4</td>
<td>1</td>
</tr>
<tr>
<td>English Lit. 3, 4</td>
<td>2</td>
</tr>
<tr>
<td>Language 3, 4</td>
<td>3</td>
</tr>
<tr>
<td>History 1, 2</td>
<td>3</td>
</tr>
<tr>
<td>Education 2</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 1</td>
<td>3</td>
</tr>
<tr>
<td>Physics 3, 4</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics 5, 6</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>16</td>
</tr>
</tbody>
</table>

**Third Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics 3, 4</td>
<td></td>
</tr>
<tr>
<td>or Pol. Sci. 1, 2</td>
<td>3</td>
</tr>
<tr>
<td>Education 3, 4</td>
<td>3</td>
</tr>
<tr>
<td>Education 7</td>
<td>3</td>
</tr>
<tr>
<td>Education 12</td>
<td>3</td>
</tr>
<tr>
<td>Physics 7, 8</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 9, 10</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>15</td>
</tr>
</tbody>
</table>

**Fourth Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Philosophy 6</td>
<td>3</td>
</tr>
<tr>
<td>History 1, 2</td>
<td>3</td>
</tr>
<tr>
<td>Education 10 (N. J.)</td>
<td>3</td>
</tr>
<tr>
<td>Education 5</td>
<td>8</td>
</tr>
<tr>
<td>Chemistry 101, 102</td>
<td>4</td>
</tr>
<tr>
<td>Electives</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>15</td>
</tr>
</tbody>
</table>
# DEPARTMENTAL REQUIREMENTS

## FIVE YEAR COMBINED LIBERAL ARTS — ENGINEERING PROGRAM

**URSINUS COLLEGE (B.A.) THE UNIVERSITY OF PENNSYLVANIA (B.S. in Eng.), AND THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY (B.S. in Eng.) Advisor—Professor Heilemann**

### PLAN I FOR ELECTRICAL, CIVIL OR MECHANICAL ENGINEERS

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
<th>Third Year</th>
<th>Fourth and Fifth Years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eng. Comp. 1, 2</td>
<td>Eng. Comp. 3, 4</td>
<td>Hist. 1, 2</td>
<td>6 to be completed at the University of Pennsylvania or the Massachusetts Institute of Technology</td>
</tr>
<tr>
<td>Foreign Language 3, 4</td>
<td>Eng. Lit. 3, 4</td>
<td>Econ. 3, 4</td>
<td>6</td>
</tr>
<tr>
<td>Chem. 1, 2</td>
<td>Psych. 1</td>
<td>Physics 7, 14</td>
<td>8</td>
</tr>
<tr>
<td>Physics 1, 2</td>
<td>Philosophy</td>
<td>Math. 7</td>
<td>3</td>
</tr>
<tr>
<td>Math. 1a</td>
<td>Physics 3, 4</td>
<td>Math. 9, 10</td>
<td>6</td>
</tr>
<tr>
<td>Math. 3, 4</td>
<td>Drafting</td>
<td>Electives</td>
<td>6</td>
</tr>
<tr>
<td>Math. 5, 6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>35</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>32</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>35</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### PLAN II FOR CHEMICAL OR METALLURGICAL ENGINEERS

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
<th>Third Year</th>
<th>Fourth and Fifth Years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eng. Comp. 1, 2</td>
<td>Eng. Comp. 3, 4</td>
<td>Philosophy</td>
<td>3 to be completed at the University of Pennsylvania or the Massachusetts Institute of Technology</td>
</tr>
<tr>
<td>Chem. 101, 102</td>
<td>Eng. Lit. 3, 4</td>
<td>Psych. 1</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language 3, 4</td>
<td>Hist. 1, 2</td>
<td>Econ. 3, 4</td>
<td>6</td>
</tr>
<tr>
<td>Math. 1a</td>
<td>Chem. 103</td>
<td>Physics 7, 14</td>
<td>8</td>
</tr>
<tr>
<td>Math. 3, 4</td>
<td>Chem. 104</td>
<td>Math. 7</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>Physics 1, 2</td>
<td>Math. 9, 10</td>
<td>6</td>
</tr>
<tr>
<td>Phys. Ed. 101, 102</td>
<td>Drafting</td>
<td>Electives</td>
<td>3</td>
</tr>
<tr>
<td>Math. 5, 6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>32</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>37</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>36</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

STUDENTS WHO WISH TO PREPARE FOR TEACHING, THE MINISTRY, OR FOR ADMISSION TO PROFESSIONAL SCHOOLS OF MEDICINE, DENTISTRY, VETERINARY MEDICINE, LAW, OR NURSING SHOULD REFER TO PAGES 29 TO 31 WHERE SUGGESTED MAJORS ARE INDICATED.
**Prizes, Honors, Degrees**

**Awarded in 1958**

The Philip H. Fogel Memorial Prize—Robert Churchill Sharp, ’58
The Elizabeth Rockefeller McCain Prize—Beverly Hinchcliffe Garlick, ’60
The Boeshore Prize for Women—Barbara Anita Bender, ’61
The Duttera Prize—Molly Mary Seip, ’58
The Peters Prize—Robert Churchill Sharp, ’58
The Ursinus Women’s Club Prize—Patricia Ann Woodbury, ’58
The Ursinus Circle Prize—Barbara Joan Tucker, ’59
The Ellen Beaver Schlaybach Memorial Prize—Molly Mary Seip, ’58
The George Ditter Prize—Allen Joseph Matusow, ’58
The Whitian Prize—Coral Lee Koffke, ’61
The Edwin M. Fogel Prize—Annabel Alice Evans, ’59
The Elizabeth B. White Prize—Ann Louise Leger, ’58
The J. Harold Brownback Prize—Kenneth William Grundy, ’58
The Robert Trucksess Prize—Louis Nemphos, ’58
The Ehret Prize—Jack Clarence Prutzman, ’59
The Ronald C. Kichline Athletic Prize—Robert Merrill Famous, ’58
The Kenneth E. Walker Memorial Trophy—Michael Joseph Drewniak ’59

**HONORS**

**GRADUATION HONORS**

*Valedictorian:* Molly Mary Seip

*Magna Cum Laude*

Norman Abramson
Ann Louise Leger

*M Cum Laude*

Jerrold Charles Bonn
Doretta May Brown
Robert Samuel Gilgor

*Salutatorian:* Newton Claude Ruch

Allen Joseph Matusow
Newton Claude Ruch
Molly Mary Seip

Kenneth William Grundy
Gayle Livingston
Edward Dorn Ottinger, Jr.

Robert Churchill Sharp

**Degrees, 1958**

**DOCTOR OF LAWS (Honorary)**

Robert Galbraith Dunlop
Sheldon Elias Mackey
Charles Henry Noss

98
BACHELOR OF ARTS

Paul Sperling Anders
Christina Margaret Armstrong
James Robert Bartholomew
Thomas Edward Bennignus
Joan Stern Berman
Peter Westlake Booke
Shirley Anne Boyle
Marilyn Gail Shelly Briner
Richard Carlton Brittain
Kenneth Edward Buggeln
Marie Regina Cairo
Josephine Anita Carino
Robert Harvey Cauffman
Richard Steven Chern
Bernard Alexander Colameco
Roger Spence Cole
Marlene Florence Cording
Michael Edward Crane
Jerry Charles Crossley
Sandra Carol Cummings
William Pearson DeLany, Jr.
Edmond Galileo DeLuca, Jr.
Wesley P. Dunnington, Jr.
Robert Merrill Famous
Sandra Lee Fenstermacher
Carl Eugene Fontaine
Rebecca Knibb Francis
Robert Clemmer Gery
Beverly Wintersteen Glodfelter
Walter Laurence Godley, Jr.
Mary Rhone Gotshalk
Kenneth William Grundy
William Landis Haines
Judith Ann Hartgen
Bruce Lewis Heller
Donald Raymond Hodgson
Conrad Charles Hoover
Orin Gardner Houser
John Nusse Idler
Ann Louise Irish
John Clifton Jackson

Caroline Ruth Jewett
James Claude Kershner
Nancy Louise King
Ann Louise Leger
Richard Lynwood Lord
David Bruce MacGregor
Loretta Assunta Marsella
Joan Fuller Martin
Louis Frank Massino
Allen Joseph Matusow
Angeline Josselyn McKey
Marilyn Lois Meeker
Johanna Munson Miller
Richard Paul Miller
William Milford Miller, Jr.
Henry Clark Minter, Jr.
Edward Mogee
Lois Victoria Molitor
Jane Louise Mowrey
Louis Nemphos
Warren Earl North, Jr.
Edward Dorn Ottinger, Jr.
Robert Ernest Pauli
Joseph Arthur Puleo
Rosemarie Kathryn Puleo
Robert David Quinn
Harral Arthur Redden, Jr.
Frederick Joseph Roedel, Jr.
William Anthony Ruffing, Jr.
Warren Alexander Rybak
Marion Margaret Cherry Sawyer
Molly Mary Seip
Valerie Spencer
Arthur Woodrow Stanley
Margaret Mary Stuba
Donald Stanton Todd
Alan Nicholas Tompkins
Mark Edward Weand, Jr.
William Carl Wenzel
Jan Scott Zanger
Thomas Reber Zern
BACHELOR OF SCIENCE

Norman Abramson
Helen Jane Ames
Andrew Arger
Thomas Ayre, III
Walter Ronald Benoliel
Sue Alene Berger
Judith Ann Berry
Sydney Blake Biddle
Richard Middleton Blood
Ralph William Body
Jerrold Charles Bonn
Donald Wilbur Bretzger
Doretta May Brown
Carolyn Somers Carter
Norman Russell Cole, Jr.
Richard Emmett Dickerson
Rose Marie Dodig
David Dunfee
John William Eckersley, Jr.
Kenneth Reising Fay, Jr.
Janet Louise Geatens
James Blaine Geyer
Robert Samuel Gilgor
Darla Lee Gingerich
Richard Earl Goldberg
Kenneth William Gray
Donald Willis Hartman
Carl William Hassler
Peter Haynizc
Alvan John Hutchko
Ronald Joseph Jastrzemski
Sue Elaine Justice
Nevin Wayne Kressley
Linda Grace Kulp
Ira Robert Lederman
Adam Lane Litka
Gayle Livingston
T. Wayne Loux, Jr.
Leonard Andrew Lubking
Edwin S. Mack, III

Edward Joseph Marshall, Jr.
Lois Jeanette Martyn
Charles Irvin Miller, Jr.
Yoshio George Miyazaki
Walter William Miyazaki
Eugene Takashi Morita
Robert James Moser
David Lawrence Moyer
Esther Megan Myers
Harry Edgar Nelson
Herbert Charles Perlman
Stanley Frederick Peters
Ruth Petraitis
Jerod Howard Price
Irene Martha Rawcliffe
Charles Wyatt Reid, Jr.
William Harrison Rogers
Christopher Alan Rohm
Newton Claude Ruch
Abigail Hastings Sangree
Adele Edna Schoonmaker
Mary Agnes Schulz
Mary Ellen Seyler
Robert Churchill Sharp
Donald James Shields
Ellen Clara Armour Shields
James Michael Slawecki
William Edmund Spangler
Ronald George Stepler
Henry George Stuebing
Merle Thyr Syvertsen
John Wesley Tomlinson
Johanna Emilie von Koppenfels
Ralph Gurness Walters
Berthold Eberhard Wendel
Charles Ross Westley
Patricia Ann Woodbury
Annette Julia Wynia
Charlene Gloria Ziegler
<table>
<thead>
<tr>
<th>Name</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abel, Sara Carhart</td>
<td>Hamilton Square, N. J.</td>
</tr>
<tr>
<td>Abele, Wilbert D.</td>
<td>Audubon, N. J.</td>
</tr>
<tr>
<td>Achey, Letty M.</td>
<td>Manheim</td>
</tr>
<tr>
<td>Adams, Carel Anne</td>
<td>Morrisville</td>
</tr>
<tr>
<td>Adams, Judith Ann</td>
<td>St. Clair, Michigan</td>
</tr>
<tr>
<td>Aitken, Alexander R.</td>
<td>New York, N. Y.</td>
</tr>
<tr>
<td>Alderfer, Rae Heacock</td>
<td>Souderton</td>
</tr>
<tr>
<td>Alexander, Georgia</td>
<td>Telford</td>
</tr>
<tr>
<td>Alexander, Janet</td>
<td>Telford</td>
</tr>
<tr>
<td>Albert, Elizabeth E.</td>
<td>Scranton</td>
</tr>
<tr>
<td>Allen, Robert James</td>
<td>Philadelphia</td>
</tr>
<tr>
<td>Ambrus, Nicholas</td>
<td>Phoenixville</td>
</tr>
<tr>
<td>Anderson, Clement</td>
<td>Philadelphia</td>
</tr>
<tr>
<td>Anderson, Merrill A</td>
<td>Scranton</td>
</tr>
<tr>
<td>Andrews, Arlene E.</td>
<td>Kutztown</td>
</tr>
<tr>
<td>Angstadt, Robert B.</td>
<td>Hazleton</td>
</tr>
<tr>
<td>Arber, David Jules</td>
<td>Westville, N. J.</td>
</tr>
<tr>
<td>Armstrong, George, Jr.</td>
<td>Sanatoga</td>
</tr>
<tr>
<td>Avery, Ronald S.</td>
<td>Bethlehem</td>
</tr>
<tr>
<td>Bachman, Richard C.</td>
<td>Haverford</td>
</tr>
<tr>
<td>Bacon, Harry Elliott</td>
<td>Yeadon</td>
</tr>
<tr>
<td>Bailey, Helen O.</td>
<td>Whitemarsh</td>
</tr>
<tr>
<td>Bair, Marion Ellen</td>
<td>Philadelphia</td>
</tr>
<tr>
<td>Banning, Rita C.</td>
<td>Collegeville</td>
</tr>
<tr>
<td>Barbour, Richard L.</td>
<td>Philadelphia</td>
</tr>
<tr>
<td>Barcklow, William A.</td>
<td>Richboro</td>
</tr>
<tr>
<td>Bardman, Fay H.</td>
<td>Red Hill</td>
</tr>
<tr>
<td>Bardusch, Joan Frances</td>
<td>Brightwaters, N. Y.</td>
</tr>
<tr>
<td>Barker, Ruth Anne</td>
<td>Frackville</td>
</tr>
<tr>
<td>Barrow, Robert Roland</td>
<td>Ringtown</td>
</tr>
<tr>
<td>Bastow, Sally Ann</td>
<td>Ambler</td>
</tr>
<tr>
<td>Batchelor, James Allen</td>
<td>Haddonfield, N. J.</td>
</tr>
<tr>
<td>Bates, Barbara Anne</td>
<td>Norfolk, Va.</td>
</tr>
<tr>
<td>Bauman, Frederick W.</td>
<td>Philadelphia</td>
</tr>
<tr>
<td>Bauman, John Francis</td>
<td>Philadelphia</td>
</tr>
<tr>
<td>Baver, Justine Alberta</td>
<td>Orwigsburg</td>
</tr>
<tr>
<td>Beals, Frederick Harry</td>
<td>Mt. Holly, N. J.</td>
</tr>
<tr>
<td>Beaver, Robert</td>
<td>Conshohocken</td>
</tr>
<tr>
<td>Becker, Michael Sydney</td>
<td>Atlantic City, N. J.</td>
</tr>
<tr>
<td>Behler, Katherine Cole</td>
<td>York</td>
</tr>
<tr>
<td>Belling, Helmut H.</td>
<td>Mt. Holly, N. J.</td>
</tr>
<tr>
<td>Bellairs, Rosalie H.</td>
<td>Havertown</td>
</tr>
<tr>
<td>Below, Greta</td>
<td>Morrisville</td>
</tr>
<tr>
<td>Bender, Barbara Anita</td>
<td>Stratford, N. J.</td>
</tr>
<tr>
<td>Benner, Cynthia Jane</td>
<td>Roselle Park, N. J.</td>
</tr>
<tr>
<td>Bennett, Robert E.</td>
<td>Princeton, N. J.</td>
</tr>
<tr>
<td>Bentley, Carol Lee</td>
<td>Philadelphia</td>
</tr>
<tr>
<td>Bergquist, Lois Jane</td>
<td>Fort Dix, N. J.</td>
</tr>
<tr>
<td>Berlitz, Brenda Lynne</td>
<td>Hazleton</td>
</tr>
<tr>
<td>Bethke, Doris Eileen</td>
<td>Trenton, N. J.</td>
</tr>
<tr>
<td>Billard, Marcia Lee</td>
<td>Eatontown, N. J.</td>
</tr>
<tr>
<td>Bingemann, Elsa H.</td>
<td>Marlton, N. J.</td>
</tr>
<tr>
<td>Birch, Bruce Edison</td>
<td>Havertown</td>
</tr>
<tr>
<td>Blakney, Dolores S.</td>
<td>Collingswood, N. J.</td>
</tr>
<tr>
<td>Blew, Robert Eugene</td>
<td>Lehighton</td>
</tr>
<tr>
<td>Blewett, Michael W.</td>
<td>Bryn Mawr</td>
</tr>
<tr>
<td>Blickenderfer, Nancy</td>
<td>Bergenfield, N. J.</td>
</tr>
<tr>
<td>Bleim, Donald Albert</td>
<td>Pottstown</td>
</tr>
<tr>
<td>Blum, Helen Eugenia</td>
<td>York</td>
</tr>
<tr>
<td>Bodien, Marilynn J.</td>
<td>Baltimore, Md.</td>
</tr>
<tr>
<td>Boehm, Earl W.</td>
<td>Philadelphia</td>
</tr>
<tr>
<td>Bogel, Barbara S.</td>
<td>Bayport, N. Y.</td>
</tr>
<tr>
<td>Boggio, Richard C.</td>
<td>Bogota, N. J.</td>
</tr>
<tr>
<td>Bond, Robert F.</td>
<td>Pemberton, N. J.</td>
</tr>
<tr>
<td>Borthwick, Carol Ann</td>
<td>Glen Ridge, N. J.</td>
</tr>
<tr>
<td>Bowman, James Carter</td>
<td>Lebanon</td>
</tr>
<tr>
<td>Bosniak, Jay Bruce</td>
<td>Philadelphia</td>
</tr>
<tr>
<td>Boyer, Carolyn Gail</td>
<td>Springfield</td>
</tr>
<tr>
<td>Boyd, Maynard E.</td>
<td>Shenandoah</td>
</tr>
<tr>
<td>Boyer, Winfield C.</td>
<td>Collegeville</td>
</tr>
<tr>
<td>Brackin, John Tudor</td>
<td>Glenside</td>
</tr>
<tr>
<td>Bradbury, Donald C.</td>
<td>Frackville</td>
</tr>
<tr>
<td>Bradbury, William C.</td>
<td>Flourtown</td>
</tr>
<tr>
<td>Brecht, Barbara Anne</td>
<td>Glenside</td>
</tr>
<tr>
<td>Brenner, Linda Dora</td>
<td>Trenton, N. J.</td>
</tr>
<tr>
<td>Bretzger, Emil F.</td>
<td>Freeport, N. Y.</td>
</tr>
<tr>
<td>Briggs, William R.</td>
<td>Philadelphia</td>
</tr>
</tbody>
</table>
Brill, Nancy Kay
Brimfield, Margaret
Brinton, Judith S.
Brookes, Edward A.
BroSELow, Robert J.
Brown, Alan Wilson
Brown, Bernard
Brown, Lowell M.
Brown, Stephen Van
Broz, Boris R.
Brumfield, Robert W.
Bubel, Albert F.
Buchanan, Nancy Ann
Burgoon, Gloria E.
Burhans, Jeanne
Burke, Ellen M.
Burns, J. Robert
Burns, Wilmer F.
Bushay, Judith L.
Bleser, George W.
Bussard, George W.
Buxton, Anne Curtis
Byrne, Nancy Marie
Byrnes, Judith Lee
Cadman, Robert S.
Cadmus, Pearl K.
Campbell, James D.
Cardona, Jose Nestov
Isabela, Puerto Rico
Carle, Edward Russell
Carpenter, Carolyn M.
Carson, George Durbin
Carson, William Jr.
Carter, Gilliam R.
Cassell, Ronald Paul
Catlett, Elsie Laura
Celis, Rodolfo
Cianci, Anthony P.
Charlton, Linellen
Childe, Jill
Christ, Walter R.
Church, Joan Millicent
Clair, Theodore Wm.
Clark, Ellen Craig
Clelland, William
Clisby, Edward V.
Coffin, Tristram
Cohen, Mary Suzanne
Colbert, Ann
Combe, Timothy
Conn, Curtis B.
Connelly, William H.
Connor, Douglas Lee
Constantine, Paul A.
Cook, Eugene John
Cook, Franklyn Roy
Cooper, James B. Jr.
Coverdale, Watson S. Jr.
Craft, Nancy Helen
Cramer, Margaret Mary
Cramer, Lynn Golt
Crater, Sharon Lee
Cressman, Carolyn L.
Critchfield, Temple F.
Crisman, David Allen
Crittchley, Sandra
Crosley, Lynne E.
Culiberg, Larraime D.
Cummings, Gail
Cuthbert, Bruce John
Dages, Kenneth Edwin
D’Agostino, Dorothy L.
Daniels, Allan Evans
Day, John Richard
Daniels, Richard A.
Darley, David
Dassler, Mary Eliz.
Davies, Joseph III
Davis, Carol Helen
Davis, Elizabeth J.
Davis, William E.
Dean, Barbara Ray
Dean, Linda Lee
Dearnsley, Carolyn
Dechant, Miles K.
DeGeorge, Barbara E.
Delate, Ellen Rose
Deisinger, John J.
Dempsey, Barry Lee
Dempsey, John Harvey
Dempsey, Maryann S.
<table>
<thead>
<tr>
<th>Name</th>
<th>City</th>
<th>State</th>
</tr>
</thead>
<tbody>
<tr>
<td>Derr, Maryann</td>
<td>Bernville</td>
<td>PA</td>
</tr>
<tr>
<td>DeRyder, Irene Marie</td>
<td>Bloomfield, N. J.</td>
<td>PA</td>
</tr>
<tr>
<td>DeStefano, Marcella A</td>
<td>King of Prussia</td>
<td>PA</td>
</tr>
<tr>
<td>Detweiler, John</td>
<td>Quakertown</td>
<td>PA</td>
</tr>
<tr>
<td>Detwiler, Judith</td>
<td>Phoenixville</td>
<td>PA</td>
</tr>
<tr>
<td>D'Eustachio, Richard</td>
<td>Beverly, N. J.</td>
<td>PA</td>
</tr>
<tr>
<td>Dietrich, Faye L.</td>
<td>Fleetwood</td>
<td>PA</td>
</tr>
<tr>
<td>Dilkes, William Allan</td>
<td>Audubon, N. J.</td>
<td>PA</td>
</tr>
<tr>
<td>Divelbiss, Nancy K.</td>
<td>Wayneboro</td>
<td>PA</td>
</tr>
<tr>
<td>Dobbins, Dean Parsons</td>
<td>Abington</td>
<td>PA</td>
</tr>
<tr>
<td>Donnel, Suzanne Lucile</td>
<td>Audubon, N. J.</td>
<td>PA</td>
</tr>
<tr>
<td>Doyle, Deborah M.</td>
<td>Roselle Park, N. J.</td>
<td>PA</td>
</tr>
<tr>
<td>Dreager, Kathryn Ann</td>
<td>Cheltenham</td>
<td>PA</td>
</tr>
<tr>
<td>Drechsler, Carole D.</td>
<td>New York, N. Y.</td>
<td>PA</td>
</tr>
<tr>
<td>Drieguba, Judy</td>
<td>Trenton, N. J.</td>
<td>PA</td>
</tr>
<tr>
<td>Dresner, Martin L.</td>
<td>Drexel Hill</td>
<td>PA</td>
</tr>
<tr>
<td>Drowniak, Michael J.</td>
<td>Quakertown</td>
<td>PA</td>
</tr>
<tr>
<td>Drobnyk, Bruce Kenneth</td>
<td>Millburn, N. J.</td>
<td>PA</td>
</tr>
<tr>
<td>Drummond, Linwood E.</td>
<td>Pitman, N. J.</td>
<td>PA</td>
</tr>
<tr>
<td>Dryfoos, Llewellyn F.</td>
<td>Hazleton</td>
<td>PA</td>
</tr>
<tr>
<td>DuDeVoire, Donald Lavis</td>
<td>Willow Grove</td>
<td>PA</td>
</tr>
<tr>
<td>Durnall, Barbara Anne</td>
<td>West Chester</td>
<td>PA</td>
</tr>
<tr>
<td>Duvall, Susan Beryl</td>
<td>Camden, N. J.</td>
<td>PA</td>
</tr>
<tr>
<td>Dyason, Brenda Elizabeth</td>
<td>Scarsdale, N. Y.</td>
<td>NY</td>
</tr>
<tr>
<td>Easter, Nannette Joan</td>
<td>Bethlehem</td>
<td>PA</td>
</tr>
<tr>
<td>Eddy, Cora Lee</td>
<td>Willow Grove</td>
<td>PA</td>
</tr>
<tr>
<td>Effenberg, Doris E.</td>
<td>Philadelphia</td>
<td>PA</td>
</tr>
<tr>
<td>Egge, Dorothy Mayberry</td>
<td>Frackville</td>
<td>PA</td>
</tr>
<tr>
<td>Eichel, Barbara Jean</td>
<td>Pennsburg</td>
<td>PA</td>
</tr>
<tr>
<td>Eichlin, Roger Frank</td>
<td>Milford, N. J.</td>
<td>PA</td>
</tr>
<tr>
<td>Eikner, Sallie Gaye</td>
<td>Broomall</td>
<td>PA</td>
</tr>
<tr>
<td>Elander, Jack LeRoy</td>
<td>Rockford, Ill.</td>
<td>PA</td>
</tr>
<tr>
<td>Elmo, Rita Anne</td>
<td>Norristown</td>
<td>PA</td>
</tr>
<tr>
<td>Emenheiser, Elaine M.</td>
<td>Feasterville</td>
<td>PA</td>
</tr>
<tr>
<td>Emery, David Roland</td>
<td>Pottstown</td>
<td>PA</td>
</tr>
<tr>
<td>Engel, Thomas Karl</td>
<td>Mt. Vernon, N. Y.</td>
<td>PA</td>
</tr>
<tr>
<td>Epping, Alice Elizabeth</td>
<td>Philadelphia</td>
<td>PA</td>
</tr>
<tr>
<td>Eving, Ruth Whitley</td>
<td>Cornwells Heights</td>
<td>PA</td>
</tr>
<tr>
<td>Estreicher, Nancy Faye</td>
<td>Pottstown</td>
<td>PA</td>
</tr>
<tr>
<td>Ether, Susanne Rose</td>
<td>Media</td>
<td>PA</td>
</tr>
<tr>
<td>Evans, Annabel Alice</td>
<td>Slatington</td>
<td>PA</td>
</tr>
<tr>
<td>Evoy, Martha Eberhard</td>
<td>Haddon Heights, N. J.</td>
<td>PA</td>
</tr>
<tr>
<td>Facchinetti, Marcia B.</td>
<td>Lansdowne</td>
<td>PA</td>
</tr>
<tr>
<td>Famous, Donald Bruce</td>
<td>Harleysville</td>
<td>PA</td>
</tr>
<tr>
<td>Famous, Robert M.</td>
<td>Schwenksville</td>
<td>PA</td>
</tr>
<tr>
<td>Fatscher, Ruth Ann</td>
<td>West Hempstead, N. Y.</td>
<td>PA</td>
</tr>
<tr>
<td>Faussett, William Carl</td>
<td>Havertown</td>
<td>PA</td>
</tr>
<tr>
<td>Faust, James Robert</td>
<td>Minersville</td>
<td>PA</td>
</tr>
<tr>
<td>Faust, Nancy Jean</td>
<td>Woodbury, N. J.</td>
<td>PA</td>
</tr>
<tr>
<td>Fernandez, Robert C.</td>
<td>Willow Grove</td>
<td>PA</td>
</tr>
<tr>
<td>Ferrell, Georgia D.</td>
<td>Broomall</td>
<td>PA</td>
</tr>
<tr>
<td>Ferretti, Donald A.</td>
<td>Philadelphia</td>
<td>PA</td>
</tr>
<tr>
<td>Fessman, Donald Norris</td>
<td>Runnemedec, N. J.</td>
<td>PA</td>
</tr>
<tr>
<td>Feusht, Charlotte Lee</td>
<td>Linwood</td>
<td>PA</td>
</tr>
<tr>
<td>Fiehs, Doris Marie L.</td>
<td>Union, N. J.</td>
<td>PA</td>
</tr>
<tr>
<td>Finkbiner, E. Stephen</td>
<td>Royersford</td>
<td>PA</td>
</tr>
<tr>
<td>Fisher, Benjamin F.</td>
<td>Orwigsburg</td>
<td>PA</td>
</tr>
<tr>
<td>Fisher, Carol Angeline</td>
<td>Philadelphia</td>
<td>PA</td>
</tr>
<tr>
<td>Fitts, Holland</td>
<td>Mamaroneck, N. Y.</td>
<td>PA</td>
</tr>
<tr>
<td>Flaherty, Barbara Anne</td>
<td>Douglassville</td>
<td>PA</td>
</tr>
<tr>
<td>Fleming, Robert Walker</td>
<td>Plymouth Meeting</td>
<td>PA</td>
</tr>
<tr>
<td>Floyd, Blanche Marion</td>
<td>Merchantville, N. J.</td>
<td>PA</td>
</tr>
<tr>
<td>Foard, Linda Barbara</td>
<td>Dover, Del.</td>
<td>PA</td>
</tr>
<tr>
<td>Fogal, Samuel Wesley</td>
<td>Womelsdorf</td>
<td>PA</td>
</tr>
<tr>
<td>Follet, Margaret Jean</td>
<td>Norristown</td>
<td>PA</td>
</tr>
<tr>
<td>Follet, Suzanne</td>
<td>Norristown</td>
<td>PA</td>
</tr>
<tr>
<td>Ford, Gail Edith</td>
<td>Trenton, N. J.</td>
<td>PA</td>
</tr>
<tr>
<td>Forepaugh, Roberta Carol</td>
<td>Reading</td>
<td>PA</td>
</tr>
<tr>
<td>Forrest, John Nevins</td>
<td>Tamaqua</td>
<td>PA</td>
</tr>
<tr>
<td>Forry, Carolyn Irene</td>
<td>Kellers Church</td>
<td>PA</td>
</tr>
<tr>
<td>Foster, Bruce Fredric</td>
<td>Havertown</td>
<td>PA</td>
</tr>
<tr>
<td>Foster, Frederick</td>
<td>Margate, N. J.</td>
<td>PA</td>
</tr>
<tr>
<td>Fox, Calvin William</td>
<td>Spring City</td>
<td>PA</td>
</tr>
<tr>
<td>Fox, Charles Edwin</td>
<td>Spring City</td>
<td>PA</td>
</tr>
<tr>
<td>Fowler, Leanne Marie</td>
<td>Easton</td>
<td>PA</td>
</tr>
<tr>
<td>Francis, Barry Sherwood</td>
<td>Pitman, N. J.</td>
<td>PA</td>
</tr>
<tr>
<td>Francis, Rebecca Knibb</td>
<td>Collegeville</td>
<td>PA</td>
</tr>
<tr>
<td>Freed, Christine Drake</td>
<td>Point Pleasant</td>
<td>PA</td>
</tr>
<tr>
<td>Freeland, Harvey J.</td>
<td>Horsham</td>
<td>PA</td>
</tr>
<tr>
<td>Friend, Howard Earle</td>
<td>Drexel Hill</td>
<td>PA</td>
</tr>
<tr>
<td>Fry, M. Joan</td>
<td>West Chester</td>
<td>PA</td>
</tr>
<tr>
<td>Fulton, Robert William</td>
<td>North Hills</td>
<td>PA</td>
</tr>
<tr>
<td>Furst, Phyllis W.</td>
<td>Lansdale</td>
<td>PA</td>
</tr>
<tr>
<td>Fusco, Marie Dolores</td>
<td>Norristown</td>
<td>PA</td>
</tr>
<tr>
<td>Galloway, Patricia A.</td>
<td>Coatesville</td>
<td>PA</td>
</tr>
</tbody>
</table>
Garside, Sally Ellen  Collingswood, N. J.
Garlick, Beverly H.  Graterford
Gartner, John B.  Phoenixville
Gattiker, Barbara Marie  Glenside
Gazonas, Catherine G.  Norristown
Gelbach, Charles Wm.  Duncannon
Genter, Frederick H.  Pitman, N. J.
Gest, Charles William  Audubon, N. J.
Gilbert, Joyce Ann  State College
Gilinger, Martha Jane  Lafayette Hill
Gillroy, Lois Ann  Maywood, N. J.
Gilmore, Nancy Eleanor  Lansdale
Gingery, Carol Ann  Cranford, N. J.
Given, James Matthew  Norristown
Glass, Larry  Drexel Hill
Glauser, Frederick L.  Ellwood City
Godshalk, Edward S.  Bangor
Gobrecht, Beverly W.  Collegeville
Godbout, William Leigh  Bellefonte
Gordinier, Gayle S.  Audubon, N. J.
Gottshall, Bruce H.  Boyertown
Gould, Dennis  Spring Mount
Gould, Warren R.  Pottstown
Graburn, Arthur L. III  King of Prussia
Grace, Joan Mary  New York, N. Y.
Graham, Robert Rorer  Levittown
Grant, Stuart Russell  Norristown
Griffin, Calvin Leon  Collegeville
Griffin, Robert Lansing  Norristown
Guttschall, Theodore Wm.  Philadelphia
Guyon, Daniel Scott  Philadelphia
Haag, John Adolph  Philadelphia
Habel, Lynne Louise  Allentown
Haberl, Franz Peter  Bellwood
Habgood, Lawrence Jr.  Hatboro
Hacker, Patricia J.  Philadelphia
Hadlee, Charles P.  Ocean City, N. J.
Hagerty, Dorothy G.  Philadelphia
Haigh, Elmer Jr.  Mt. Holly, N. J.
Hake, Tucker  Perkiomenville
Hallman, Laverne R.  Norristown
Hamblin, A. Elizabeth  Mt. Pocono
Hamilton Lore Elizabeth  Drexel Hill
Hamlin, Frederic  Stewartsville, N. J.
Hanzlik, Paul R.  Bethlehem
Harrelson, Catherine C.  Baltimore, Md.
Harries, Antje  Hazlet, N. J.
Harrison, Reigh X.  Royersford
Harten, Leanne  Happongers Falls, N. Y.
Hartzell, Mildred L.  Chester
Hartzell, William L.  North Wales
Hauer, Beatrice  Lynchburg, Va.
Haviaux, Jacqueline  Norristown
Hayes, Ronald W.  Collegeville
Heale, Elizabeth E.  Havertown
Hearne, Judith Myers  Abington
Heasley, Elaine L.  Export
Heckler, Jay Wayne  Jenkintown
Heckler, Willis K.  Zieglerville
Heffelfinger, Carol A.  Bethelhem
Heilemann, John M.  Collegeville
Heisler, Mary Anne  Yorktown, N. Y.
Heller, Harry Roger  Norristown
Hemsley, Henry Wm.  Plymouth Meeting
Henne, Sandra Lee  Ardmore
Henry, Donald John  Norristown
Herman, George Robert  Skippack
Herre, Naomi Ruth  Philadelphia
Heyser, Ruth  Norristown
Hill, Alan C.  Norristown
Hill, Paul Henry  Camp Hill
Hill, Penelope  Oreland
Hillard, Susan Marie  Phoenixville
Himes, Robert Thomas  Pottstown
Hirschhorn, Richard L.  Collegeville
Hobson, Daniel Wayne  Pipersville
Hoehl, Patricia A.  Rye, N. Y.
Hoffert, Robert Willard  Quakertown
Hoffman, F. Dale  Millville, N. J.
Hoffmann, Victoria E.  Newtown Square
Hoffman, William Rees  Norristown
Hohn, Robert Lawrence  Valley Stream, N. Y.
Holcombe, Ted Sergeant  Dunellen, N. J.
Holl, Sandra Kay  Lansdale
Hollingsworth, Jack R.  Malvern
Holloway, Charles A.  New Cumberland
Hope, John Garland  Philadelphia
Horrocks, William L.  Philadelphia
Housers, Ben P.  Tamaqua
Huber, Gregory R.  Plymouth Meeting
<table>
<thead>
<tr>
<th>Name</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hubert, Richard R.</td>
<td>Philadelphia</td>
</tr>
<tr>
<td>Hufnagle, Bette Lou</td>
<td>Schwenksville</td>
</tr>
<tr>
<td>Hunkins, Dalton Ray</td>
<td>Parkertown, N. J.</td>
</tr>
<tr>
<td>Hunsberger, Arthur G.</td>
<td>Collegeville</td>
</tr>
<tr>
<td>Hunsicker, Robert G.</td>
<td>Hatfield</td>
</tr>
<tr>
<td>Hunt, Edward H. Jr.</td>
<td>Jeffersonville</td>
</tr>
<tr>
<td>Hunt, Margaret B.</td>
<td>Summit, N. J.</td>
</tr>
<tr>
<td>Hurd, Ann Holbrook</td>
<td>Basking Ridge, N. J.</td>
</tr>
<tr>
<td>Hurlburt, Michael B.</td>
<td>Roxbury, Conn.</td>
</tr>
<tr>
<td>Hurwitz, Byron B.</td>
<td>Norristown</td>
</tr>
<tr>
<td>Ibbs, Sylvia M.</td>
<td>Newtown Square</td>
</tr>
<tr>
<td>Ignatin, Joel David</td>
<td>Philadelphia</td>
</tr>
<tr>
<td>Innes, John Edwin</td>
<td>Trenton, N. J.</td>
</tr>
<tr>
<td>Irwin, Alice P.</td>
<td>Bala-Cynwyd</td>
</tr>
<tr>
<td>Jacobs, Theresa C.</td>
<td>Akron</td>
</tr>
<tr>
<td>Jendricks, Henry W.</td>
<td>Norristown</td>
</tr>
<tr>
<td>Johannesen, Bjørne F.</td>
<td>Collegeville</td>
</tr>
<tr>
<td>Johnson, Jane Patricia</td>
<td>Havertown</td>
</tr>
<tr>
<td>Johnson, Susan H.</td>
<td>Morrisville</td>
</tr>
<tr>
<td>Johnson, Thomas C.</td>
<td>Easton</td>
</tr>
<tr>
<td>Joiner, Claude Warren</td>
<td>Plymouth Meeting</td>
</tr>
<tr>
<td>Jones, Carol Elaine</td>
<td>Woodbury, N. J.</td>
</tr>
<tr>
<td>Jones, John Elwyn</td>
<td>Pottsville</td>
</tr>
<tr>
<td>Jones, Nancy Lee</td>
<td>Oldwick, N. J.</td>
</tr>
<tr>
<td>Jones, Robert Irwin</td>
<td>Ambler</td>
</tr>
<tr>
<td>Joseph, Laverne Ray</td>
<td>Spring Grove</td>
</tr>
<tr>
<td>Kaiser, Virginia Ann</td>
<td>Ambler</td>
</tr>
<tr>
<td>Kallenbach, Beverly E.</td>
<td>Jarretstown</td>
</tr>
<tr>
<td>Karppinen, Patricia A.</td>
<td>Haddonfield, N. J.</td>
</tr>
<tr>
<td>Kelemen, Michael H.</td>
<td>Audubon, N. J.</td>
</tr>
<tr>
<td>Keller, Clara V.</td>
<td>Pottstown</td>
</tr>
<tr>
<td>Kelley, Emily Cecelia</td>
<td>Philadelphia</td>
</tr>
<tr>
<td>Kennedy, Carol Ann</td>
<td>Philadelphia</td>
</tr>
<tr>
<td>Kenney, William C. Jr.</td>
<td>Meadowbrook</td>
</tr>
<tr>
<td>Keps, Elisabeth Tiiu</td>
<td>Pottstown</td>
</tr>
<tr>
<td>Kershner, E. Theodore</td>
<td>Schwenksville</td>
</tr>
<tr>
<td>Khuen-Kryk, Karl</td>
<td>Malvern</td>
</tr>
<tr>
<td>Killough, Sylvia Jean</td>
<td>Quakertown</td>
</tr>
<tr>
<td>Kilpatrick, Lorraine R.</td>
<td>Penn Square</td>
</tr>
<tr>
<td>Kinckiner, Wilmer E. Jr.</td>
<td>Pottstown</td>
</tr>
<tr>
<td>King, Michael IV</td>
<td>Plainfield, N. J.</td>
</tr>
<tr>
<td>Kinloch, Allan Wm.</td>
<td>Philadelphia</td>
</tr>
<tr>
<td>Kleckner, Gail Diane</td>
<td>Tamaqua</td>
</tr>
<tr>
<td>Kleinhoff, Faye L.</td>
<td>Hatboro</td>
</tr>
<tr>
<td>Klieman, Charles Harris</td>
<td>Philadelphia</td>
</tr>
<tr>
<td>Kline, Joy</td>
<td>Ardsley</td>
</tr>
<tr>
<td>Knerr, Joanne M.</td>
<td>Philadelphia</td>
</tr>
<tr>
<td>Knoll, F. Jeanette</td>
<td>Lansdale</td>
</tr>
<tr>
<td>Knowles, Susanne</td>
<td>Crosswicks, N. J.</td>
</tr>
<tr>
<td>Koch, Alice Elisabeth</td>
<td>Philadelphia</td>
</tr>
<tr>
<td>Koch, Bruce R.</td>
<td>W. Reading</td>
</tr>
<tr>
<td>Koch, Lawrence L.</td>
<td>Trenton, N. J.</td>
</tr>
<tr>
<td>Koch, Richard J.</td>
<td>Pottsville</td>
</tr>
<tr>
<td>Kochenderfer, Wayne N.</td>
<td>Westfield, N. J.</td>
</tr>
<tr>
<td>Koff, Marvin Saul</td>
<td>Philadelphia</td>
</tr>
<tr>
<td>Koffke, Coral Lee</td>
<td>Reading</td>
</tr>
<tr>
<td>Korte, Susan Paschall</td>
<td>Gettysburg</td>
</tr>
<tr>
<td>Kottcamp, Edward C.</td>
<td>Marietta</td>
</tr>
<tr>
<td>Koyanagi, Richard M.</td>
<td>Seabrook, N. J.</td>
</tr>
<tr>
<td>Krasley, Joyce V.</td>
<td>Royersford</td>
</tr>
<tr>
<td>Krasner, Paul Phillip</td>
<td>Souderton</td>
</tr>
<tr>
<td>Kreisinger, Robert H.</td>
<td>Wyomissing</td>
</tr>
<tr>
<td>Kressler, Marcia Anne</td>
<td>Quakertown</td>
</tr>
<tr>
<td>Kriebel, James M. Jr.</td>
<td>Hatfield</td>
</tr>
<tr>
<td>Krombolz, Nancy Ruth</td>
<td>Newtown Square</td>
</tr>
<tr>
<td>Krones, Helene Barbara</td>
<td>Oreland</td>
</tr>
<tr>
<td>Krumwiede, William F. Jr.</td>
<td>Irvington, N. J.</td>
</tr>
<tr>
<td>Kuhn, Christine E.</td>
<td>Ocean City, N. J.</td>
</tr>
<tr>
<td>Kurz, Warren William</td>
<td>Ottsville</td>
</tr>
<tr>
<td>Kustra, Edward Joseph</td>
<td>McKeesport</td>
</tr>
<tr>
<td>Kyak, Diana Elizabeth</td>
<td>Westfield, N. J.</td>
</tr>
<tr>
<td>Lamm, Dorothea Eva</td>
<td>Shoemakersville</td>
</tr>
<tr>
<td>LaNoce, Anita Lynn</td>
<td>Lalavlette, N. J.</td>
</tr>
<tr>
<td>Laurenson, Trudy F.</td>
<td>Pottstown</td>
</tr>
<tr>
<td>Law, Charles Stanton</td>
<td>Philadelphia</td>
</tr>
<tr>
<td>Loney, Laura Louise</td>
<td>Havertown</td>
</tr>
<tr>
<td>Leach, Gary Russell</td>
<td>West Lawn</td>
</tr>
<tr>
<td>Leatherman, Jerry Neal</td>
<td>Perkasie</td>
</tr>
<tr>
<td>LeCato, Carol Ruth</td>
<td>Haddonfield, N. J.</td>
</tr>
<tr>
<td>LeCato, Jeanne Esther</td>
<td>Haddonfield, N. J.</td>
</tr>
<tr>
<td>Lee, Linda J.</td>
<td>Drexel Hill</td>
</tr>
<tr>
<td>Leeds, Rufus Harold Jr.</td>
<td>Venntor, N. J.</td>
</tr>
<tr>
<td>Lefever, Lois Gail</td>
<td>Leonardo, N. J.</td>
</tr>
<tr>
<td>Leonard, Robert David</td>
<td>Willow Grove</td>
</tr>
<tr>
<td>Lesher, Sara Louise</td>
<td>Lebanon</td>
</tr>
<tr>
<td>Levenson, Hubert Sheldon</td>
<td>Philadelphia</td>
</tr>
<tr>
<td>Levine, Richard Frank</td>
<td>Philadelphia</td>
</tr>
<tr>
<td>Name</td>
<td>Location, State</td>
</tr>
<tr>
<td>---------------------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>Levitt, Richard Lewis</td>
<td>Philadelphia</td>
</tr>
<tr>
<td>Lewis, Elizabeth Anne</td>
<td>Philadelphia</td>
</tr>
<tr>
<td>Lewis, Jo-Ann</td>
<td>Audubon, N. J.</td>
</tr>
<tr>
<td>Lewis, Margaret Ann</td>
<td>Sheridan</td>
</tr>
<tr>
<td>Lewis, Philip G. III</td>
<td>Royersford</td>
</tr>
<tr>
<td>Licisko, Linda Sue</td>
<td>Butlerstown</td>
</tr>
<tr>
<td>Lim, Joann Fritz</td>
<td>Stroudsburg</td>
</tr>
<tr>
<td>Lim J. Paul Jr.</td>
<td>Stroudsburg</td>
</tr>
<tr>
<td>Lindemuth, David E.</td>
<td>Havertown</td>
</tr>
<tr>
<td>Linker, Robert Hugh</td>
<td>Philadelphia</td>
</tr>
<tr>
<td>Lippincott, Robert H. Jr.</td>
<td>Doylestown</td>
</tr>
<tr>
<td>Longmire, Phyllis Anne</td>
<td>Philadelphia</td>
</tr>
<tr>
<td>Lord, Sam Darrow</td>
<td>Trenton, N. J.</td>
</tr>
<tr>
<td>Lorentz, Wilson Robert</td>
<td>Glassboro, N. J.</td>
</tr>
<tr>
<td>Lozier, Mary Ann</td>
<td>Woodbury, N. J.</td>
</tr>
<tr>
<td>Lubking, Ronald Bryan</td>
<td>Drexel Hill</td>
</tr>
<tr>
<td>Luck, Karl Andrew</td>
<td>Wayne</td>
</tr>
<tr>
<td>Ludwig, Donald Ray</td>
<td>N. Brunswick, N. J.</td>
</tr>
<tr>
<td>Lutz, Joseph Wendell</td>
<td>Hatboro</td>
</tr>
<tr>
<td>Lyter, Richard Knox</td>
<td>Norristown</td>
</tr>
<tr>
<td>MacCalmont, Virginia A.</td>
<td>Westport, Conn.</td>
</tr>
<tr>
<td>MacClary, Nancy Jane</td>
<td>N. Bergen, N. J.</td>
</tr>
<tr>
<td>MacDougall, Jane C.</td>
<td>Towson, Md.</td>
</tr>
<tr>
<td>MacFarland, Linda Marilyn</td>
<td>Haddon Heights, N. J.</td>
</tr>
<tr>
<td>Mackey, Peter David</td>
<td>Glenside</td>
</tr>
<tr>
<td>MacMullan, Mary Jane</td>
<td>Center Square</td>
</tr>
<tr>
<td>MacPherson, Kathleen E.</td>
<td>Mechanicsburg</td>
</tr>
<tr>
<td>Maddock, Richard C.</td>
<td>Drexel Hill</td>
</tr>
<tr>
<td>Madish, Marie Helen</td>
<td>Camden, N. J.</td>
</tr>
<tr>
<td>Maestrelli, Raymond C.</td>
<td>Spring Lake, N. J.</td>
</tr>
<tr>
<td>Magness, Lucretia</td>
<td>Wayne</td>
</tr>
<tr>
<td>Malick, Gerald Paul</td>
<td>Pottsville</td>
</tr>
<tr>
<td>Mallick, Carole Ann</td>
<td>Frackville</td>
</tr>
<tr>
<td>Maloney E. Lynne</td>
<td>King of Prussia</td>
</tr>
<tr>
<td>March, Frances Marian</td>
<td>Havertown</td>
</tr>
<tr>
<td>Martin, Donald Allison</td>
<td>Westbrook, Conn.</td>
</tr>
<tr>
<td>Mast, William Ray</td>
<td>Hartly, Del.</td>
</tr>
<tr>
<td>Master, Bernard Fred</td>
<td>Philadelphia</td>
</tr>
<tr>
<td>Matthews, Beryl Martha</td>
<td>Philadelphia</td>
</tr>
<tr>
<td>Matthews, Elizabeth M.</td>
<td>Malvern</td>
</tr>
<tr>
<td>Maurer, Marilyn Joyce</td>
<td>Yardley</td>
</tr>
<tr>
<td>Mayes, Richard Lorrain</td>
<td>Norristown</td>
</tr>
<tr>
<td>Mazurek, Maryann P.</td>
<td>Penn's Park</td>
</tr>
<tr>
<td>McCabe, Thomas Martin</td>
<td>Phoenixville</td>
</tr>
<tr>
<td>McClellan, Robert Alan</td>
<td>Hatboro</td>
</tr>
<tr>
<td>McClure, Barbara</td>
<td>Wayne</td>
</tr>
<tr>
<td>McCrae, Jack Edward</td>
<td>Willow Grove</td>
</tr>
<tr>
<td>McGill, Jean Lalen</td>
<td>Perkasie</td>
</tr>
<tr>
<td>McGoldrick, Carol Sue</td>
<td>Yeadon</td>
</tr>
<tr>
<td>McGrath, Anthony N.</td>
<td>Gloucester, N. J.</td>
</tr>
<tr>
<td>McHale, Peter Walker</td>
<td>Wayne</td>
</tr>
<tr>
<td>McKown, Archibald AlvaH</td>
<td>Johnsville</td>
</tr>
<tr>
<td>McLaughlin, John Edward</td>
<td>Springfield</td>
</tr>
<tr>
<td>McMartin, James Bruce</td>
<td>Norristown</td>
</tr>
<tr>
<td>McNitt, Kathi</td>
<td>N. Marshfield, Mass.</td>
</tr>
<tr>
<td>McQueen, Flora Andrea</td>
<td>Philadelphia</td>
</tr>
<tr>
<td>McQuoid, William A.</td>
<td>Norristown</td>
</tr>
<tr>
<td>McSparren, Sally Susan</td>
<td>Lancaster</td>
</tr>
<tr>
<td>McWilliams, Anne Markland</td>
<td>Collegeville</td>
</tr>
<tr>
<td>Megill, Robert William</td>
<td>Leonardo, N. J.</td>
</tr>
<tr>
<td>Mehrer, George William</td>
<td>Havertown</td>
</tr>
<tr>
<td>Meier, Rosalind Edna</td>
<td>Glenside</td>
</tr>
<tr>
<td>Meier, Walter Erich</td>
<td>Green Lane</td>
</tr>
<tr>
<td>Meitzner, Lee A.</td>
<td>Glenside</td>
</tr>
<tr>
<td>Menkus, Richard Henry</td>
<td>Philadelphia</td>
</tr>
<tr>
<td>Mercer, Ruth Hutchinson</td>
<td>Philadelphia</td>
</tr>
<tr>
<td>Mertz, Susan Rae</td>
<td>Sunbury</td>
</tr>
<tr>
<td>Mesa, Charles Jr.</td>
<td>Philadelphia</td>
</tr>
<tr>
<td>Meszaros, Joan Ann</td>
<td>Phoenixville</td>
</tr>
<tr>
<td>Meyer, Joyce</td>
<td>Yonkers, N. Y.</td>
</tr>
<tr>
<td>Meyers, Robert Paul</td>
<td>Spring Mount</td>
</tr>
<tr>
<td>Miale, Joseph Charles</td>
<td>Jim Thorpe</td>
</tr>
<tr>
<td>Michael, David James</td>
<td>Oreland</td>
</tr>
<tr>
<td>Miller, Joanna Victoria</td>
<td>Philadelphia</td>
</tr>
<tr>
<td>Miller, Margaret Ann</td>
<td>York</td>
</tr>
<tr>
<td>Miller, Samuel Clemons</td>
<td>Souderton</td>
</tr>
<tr>
<td>Miller, William David</td>
<td>Philadelphia</td>
</tr>
<tr>
<td>Miller, Victoria Constance</td>
<td>Philadelphia</td>
</tr>
<tr>
<td>Miller, Winifred Laurann</td>
<td>Wyncote</td>
</tr>
<tr>
<td>Mills, Alice Clara</td>
<td>Drexel Hill</td>
</tr>
<tr>
<td>Minnich, James Allen</td>
<td>Pottstown</td>
</tr>
<tr>
<td>Name</td>
<td>City, State</td>
</tr>
<tr>
<td>-----------------------</td>
<td>----------------------</td>
</tr>
<tr>
<td>Misciascio, Dominick</td>
<td>Trenton, N. J.</td>
</tr>
<tr>
<td>Mitchell, Louis Wilcox</td>
<td>Narberth</td>
</tr>
<tr>
<td>Moennig, Elise Ida</td>
<td>Philadelphia</td>
</tr>
<tr>
<td>Moll, Thomas Brandt</td>
<td>Hamburg</td>
</tr>
<tr>
<td>Moock, Mary Lou</td>
<td>Philadelphia</td>
</tr>
<tr>
<td>Moore, Carol Joan</td>
<td>Waynesburg</td>
</tr>
<tr>
<td>Moore, Irvin Samuel</td>
<td>Reading</td>
</tr>
<tr>
<td>Moran, Eugene Hugh</td>
<td>West Chester</td>
</tr>
<tr>
<td>Moran, Richard John</td>
<td>Folsom</td>
</tr>
<tr>
<td>Morgan, Vernon William</td>
<td>Norristown</td>
</tr>
<tr>
<td>Morita, Gerold Y.</td>
<td>Seabrook, N. J.</td>
</tr>
<tr>
<td>Morrell, Anita M.</td>
<td>Brooklyn, N. Y.</td>
</tr>
<tr>
<td>Morris, George Markley</td>
<td>Bloomfield, N. J.</td>
</tr>
<tr>
<td>Morrison, James Carlton</td>
<td>Philadelphia</td>
</tr>
<tr>
<td>Moses, Robert Harold</td>
<td>Schwenksville</td>
</tr>
<tr>
<td>Motta, Sandra Elizabeth</td>
<td>Colon, Panama</td>
</tr>
<tr>
<td>Moyer, Alice Ann</td>
<td>Collegeville</td>
</tr>
<tr>
<td>Moyer, Keith</td>
<td>Palmyra</td>
</tr>
<tr>
<td>Moyer, Roy Jacob</td>
<td>Plymouth Meeting</td>
</tr>
<tr>
<td>Much, Suzanne K.</td>
<td>Perkasie</td>
</tr>
<tr>
<td>Mulford, Robert A.</td>
<td>Bridgeton, N. J.</td>
</tr>
<tr>
<td>Mumbauer, Ardith Jane</td>
<td>Bethlehem</td>
</tr>
<tr>
<td>Mundis, Nancy Ann</td>
<td>York</td>
</tr>
<tr>
<td>Murphy, Herbert S.</td>
<td>Flourtown</td>
</tr>
<tr>
<td>Myers, Jon Fritz</td>
<td>York</td>
</tr>
<tr>
<td>Myers, Linda Ann</td>
<td>Haddonfield, N. J.</td>
</tr>
<tr>
<td>Nace, Winifred Louise</td>
<td>Camp Hill</td>
</tr>
<tr>
<td>Nagle, Judith Ann</td>
<td>Hershey</td>
</tr>
<tr>
<td>Neborak, Mary</td>
<td>Royersford</td>
</tr>
<tr>
<td>Neff, Phyllis Eileen</td>
<td>West Chester</td>
</tr>
<tr>
<td>Nelson, Judith Ann</td>
<td>Broomall</td>
</tr>
<tr>
<td>Neubauer, E. Robert</td>
<td>North Wales</td>
</tr>
<tr>
<td>Nichols, Stephany Lee</td>
<td>Easton</td>
</tr>
<tr>
<td>Nicolai, Catherine Ann</td>
<td>Conshohocken</td>
</tr>
<tr>
<td>Nielsen, Gail Rita</td>
<td>Livingston, N. J.</td>
</tr>
<tr>
<td>Nielsen, Warren Theodore</td>
<td>Toms River, N. J.</td>
</tr>
<tr>
<td>Nonemaker, George Jr.</td>
<td>Pennsauken, N. J.</td>
</tr>
<tr>
<td>Norton, Kathryn Belle</td>
<td>Trenton, N. J.</td>
</tr>
<tr>
<td>Oehrle, Mary Ellen</td>
<td>Hatboro</td>
</tr>
<tr>
<td>Ono, Fusako</td>
<td>Shiogama, Japan</td>
</tr>
<tr>
<td>Owen, Diane L.</td>
<td>Huntingdon Valley</td>
</tr>
<tr>
<td>Owen, Nancy Carol</td>
<td>Brooklyn, N. Y.</td>
</tr>
<tr>
<td>Oppenheimer, Margaret</td>
<td>Norristown</td>
</tr>
<tr>
<td>Owen, Wayne P.</td>
<td>Trenton, N. J.</td>
</tr>
<tr>
<td>Paine, Ray Maxwell</td>
<td>Norristown</td>
</tr>
<tr>
<td>Parker, Milton Curtis Jr.</td>
<td>Ocean City, N. J.</td>
</tr>
<tr>
<td>Parkhouse, Jeffrey Russell</td>
<td>Abington</td>
</tr>
<tr>
<td>Parsly, Nancy Layton</td>
<td>Chestnut Hill</td>
</tr>
<tr>
<td>Parvenski, George J.</td>
<td>Pottstown</td>
</tr>
<tr>
<td>Pasfield, George Jr.</td>
<td>Trappe</td>
</tr>
<tr>
<td>Patterson, Patricia L.</td>
<td>Woodbury, N. J.</td>
</tr>
<tr>
<td>Paxson, Martha J.</td>
<td>Southampton</td>
</tr>
<tr>
<td>Pearl, Burton William</td>
<td>Audubon, N. J.</td>
</tr>
<tr>
<td>Pearson, Helen Virginia</td>
<td>Glenside</td>
</tr>
<tr>
<td>Peiffer, Linda Lee</td>
<td>Holland</td>
</tr>
<tr>
<td>Pengelly, Dorothea Jane</td>
<td>Royersford</td>
</tr>
<tr>
<td>Pennington, Mary Christine</td>
<td>Pen Argyl</td>
</tr>
<tr>
<td>Perfetti, Sandra Lee</td>
<td>Glenside</td>
</tr>
<tr>
<td>Petersen, Robert Alan</td>
<td>Cranford, N. J.</td>
</tr>
<tr>
<td>Peterson, Barbara Joan</td>
<td>Pennsauken, N. J.</td>
</tr>
<tr>
<td>Peterson, Carl G.</td>
<td>Philadelphia</td>
</tr>
<tr>
<td>Pettigrew, Jean Marie</td>
<td>Haddonfield, N. J.</td>
</tr>
<tr>
<td>Pfaffhausen, Sandra Lee</td>
<td>Glenside</td>
</tr>
<tr>
<td>Phillips, John Arthur</td>
<td>Camden, N. J.</td>
</tr>
<tr>
<td>Phillips, Paul Frederick</td>
<td>Conshohocken</td>
</tr>
<tr>
<td>Pietzsch, Barbara Theresa</td>
<td>Feasterville</td>
</tr>
<tr>
<td>Pine, Barbara Lee</td>
<td>Gibbsboro, N. J.</td>
</tr>
<tr>
<td>Piper, Sandra June</td>
<td>Havertown</td>
</tr>
<tr>
<td>Pitcher, George R.</td>
<td>Long Branch, N. J.</td>
</tr>
<tr>
<td>Podolak, Loretta Frances</td>
<td>Burlington, N. J.</td>
</tr>
<tr>
<td>Polins, George</td>
<td>Stowe</td>
</tr>
<tr>
<td>Pontius, Suann W.</td>
<td>Collingswood, N. J.</td>
</tr>
<tr>
<td>Potkonksi, Louise Thomas</td>
<td>Spring City</td>
</tr>
<tr>
<td>Prutzman, Jack Clarence</td>
<td>Reading</td>
</tr>
<tr>
<td>Rachunis, Barbara Anne</td>
<td>Roebling, N. J.</td>
</tr>
<tr>
<td>Randall, Bryce Alan</td>
<td>Collingswood, N. J.</td>
</tr>
<tr>
<td>Rankin, Eleanor B.</td>
<td>Philadelphia</td>
</tr>
<tr>
<td>Ransom, D. Lynn</td>
<td>Collingswood, N. J.</td>
</tr>
<tr>
<td>Reckard, Craig R.</td>
<td>Roslyn</td>
</tr>
<tr>
<td>Reed, Nancy Kay</td>
<td>Chatham, N. J.</td>
</tr>
</tbody>
</table>
Refford Joan  Coatesville
Reider, Susan Diane  Schuylkill Haven
Reiff, Leroy Wesley  Creamery
Reiniger, Ingrid E.  Edgemont
Remig, William John  Collegeville
Renshaw, Susan Caldwell  Philadelphia
Reso, Stephen James  North Hills
ReWalt, Richard L.  Roslyn
Rice, Gail Kathleen  Broomall
Richards, Suzanne Ash  Easton
Richmond, Henry  Park Ridge, N. J.
Riddell, Harry James  Ventnor, N. J.
Rinehart, Sandra Lee  Belmar, N. J.
Rishaw, Preston Clarence  Downingtown
Rittweiler, Arlene Joan  Park Ridge, N. J.
Robbins, Jacqueline  Drexel Hill
Robinson, Patricia Ann  Oakford
Romig, Barbara Ann  Drexel Hill
Rosenbaum, Arnold Steven  Philadelphia
Rosenberg, Alan Jay  Margate, N. J.
Rossi, Lois Joy  North Bergen, N. J.
Roth, Martha Harriet  Hanover
Royle, Carolyn Elisabeth  Norristown
Rush, David Norman  Willow Grove
Russell, Enos Louis Jr.  Norristown
Russo, Roberta Rae  Island Heights, N. J.
Salwen, Jay Kenneth  Hewlett, N. Y.
Sandberg, Ronald Kenneth  Philadelphia
Sandercock, James Milton  Pen Argyl
Sanders, Judith Carol  Malverne, N. Y.
Sands, Sharyn Lee  Pottstown
Sansenbach, Anne Claire  Bryn Mawr
Santosuosso, John Edward  Collingswood, N. J.
Savastio, Edward Anthony  Upper Darby
Saylor, Paul Bernard  Collegeville
Saylor, Richard Ronald  Spring City
Schachterle, Doris Marie  Norristown
Schachterle, June Louise  Norristown
Schad, Robert Frederick  Royerford
Schaefer, Joan Marie  Philadelphia
Shaffer, Robert Barrie  Haddonfield, N. J.
Schaub, Joseph Langran  Abington
Shaw, Deborah  Melrose Park
Schaufler, Lorraine  Short Hills, N. J.
Scheerbaum, Marilyn  Oreland
Scheffler, Gerald Hirst  Bath
Scheffley, Katherine Marie  Kingston
Scheideler, Robert Oliver  Trenton, N. J.
Scherr, Susan Lou  Glenside
Schevren, Charlotte Bayliss  Collegeville
Schmelz, Carl Michael  Trenton, N. J.
Schmid, Elizabeth Anne  Philadelphia
Schmidt, Carol Elizabeth  Staten Island, N. Y.
Schmoyer, Robert Carl  Reading
Schnabel, Kattrinka Erdman  Telford
Schnabel, Susan Jane  Telford
Schneck, Betsy Ann  Drexel Hill
Schnider, Janet Louise  Havertown
Scholl, Joanne Lucille  East Greenville
Schreiner, Carol Anne  Lansdale
Schultz, Judy Lee  Pennsauken, N. J.
Schumacher, Helen Louise  Meadow Brook
Schumacher, John Jr.  Scranton
Schumacher, Marie Ann  Scranton
Seasholtz, William Douglas  Perkiomenville
Sefcik, Claire Miller  Pound Ridge, N. Y.
Selgrath, Margaret Elizabeth  Hatboro
Sellers, Anne Nickel  Wymissing
Semach, Michael John  Norristown
Sensenig, Margaret Irene  Pottstown
Serdy, James George  Phoenixville
Settles, Ben B.  Orrville, Ohio
Shaner, Harold Terry  Pottstown
Shearer, Daniel Monroe  Pottstown
Shese, Barbara Jane  Annville
Shellenberger, Russell H.  Spring City
Sherman, Bruce Philip  Philadelphia
Sherman, Robert M.  Merion
Shilton, Marla Joan  Philadelphia
Shinehouse, John William  Pottstown
Shippee, Robert John  Short Hills, N. J.
Shisler, Robert Allen  Telford
Shissler, Ronald Hollingsworth  Haddon Heights, N. J.
Shollenberger, Richard N.  Reading
Shults, Peter S.  Clark, N. J.
LIST OF STUDENTS, 1958-59

Shuman, Sandra  Bloomsburg
Simpson, Elizabeth Ellen  Upper Darby
Simpson, Paul Andrew Jr.  Collingswood, N. J.
Simpson, Tom Miller  Abington
Sinopoli, Albert Joseph  Kulpmont
Slim, Eleanor Elizabeth  Merchantville, N. J.
Slinghoff, Charles Henry  Sinking Spring
Small, Sydney James  Norristown
Smith, Carole Rose  Philadelphia
Smith, Cynthia Jean  Verona, N. J.
Smith, Gail Marion  Fairview Village
Smith, Harland Charles  Fairview Village
Smith, H. Donald  Quarryville
Smith, Margaret Florence  Philadelphia
Smith, Raymond Leigh  Eagleville
Snyder, Gail Ann  Willow Grove
Snyder, Glen W.  Willow Grove
Soper, Cherrie Lou  Paoli
Sorensen, William R. Jr.  Collegeville
Spare, Evelyn Ruth  Norristown
Spencer, Ruth Ann  Philadelphia
Sperber, Louise B.  Elkins Park
Springer, Jill Ruth  Clinton, N. J.
Springer, Nancy Caroline  Linden, N. J.
Stagliano, Gregory G.  Norristown
Stankus, Russel Charles  Edison, N. J.
Statzell, Adele C.  Wyomissing
Steele, John E.  Tamaqua
Steeley, Philip Wayne  Quakertown
Stevens, Sandra Ann  Cranford, N. J.
Stickel, Walter Charles  Margate, N. J.
Stitley, Margaret L. M.  Dalmatia
Stoll, Alan Walter  Philadelphia
Stoodley, Charles Case  Drexel Hill
Stoudt, Thomas Joseph  Roslyn
Strasser, Lora Louise  Dearborn, Mich.
Street, Andrew Grier  Glenside
Strunk, Jack Herbert  Royersford
Struthers, John William  Norristown
Struve, Sally L.  Jenkintown
Stubbs, Paul A.  New Hope
Sullivan, Kay Randy  York
Suman, Arthur Wheeler  Hatboro
Swan, Marcia E.  Dumont, N. J.
Swartzkopf, Walter K. Jr.  Pottstown
Swinton, John Ralph  Colonia, N. J.
Swope, Barbara Ann  Myerstown
Szegda, John Jr.  Chester
Tadley, Elizabeth C.  Collegeville
Taggart, Faye Louise  King of Prussia
Taylor, Robert Norman  Norristown
Tempset, Ronald Thomas  Catasauqua
Terry, James Hardy  North Hills
Test, Lawrence Richard  Haddonfield, N. J.
Thomas, Margaret Anne  Fairview Village
Thomas, Merle E.  Pemberton, N. J.
Tomkins, Judie Lee  Little Neck, N. Y.
Thompson, Charles Frederick  Royersford
Thompson, David Wayne  Norristown
Thompson, Minna  Rego Park, N. Y.
Tobias, Lawrence Paul  Pottstown
Tomasovich, Patricia K.  Coatesville
Traeger, Erna Mae  Quakertown
Trauger, J. Kenneth  Pipersville
Treiman, Harris I.  Philadelphia
Tripician, Gail Barbara  Pleasantville, N. J.
Trout, Walter Ellsworth  Woodbury, N. J.
Tucker, Barbara Joan  Akron, Ohio
Tucker, Patricia Ann  Valley Stream, N. Y.
Turnbull, Robert Bruce  Glenside
Updegrove, Nancy Kay  Millerstown
Vagedes, Vivian Gail  Livingston, N. J.
Vahar, Mall  Seabrook, N. J.
Valentine, John Brett  Norristown
VanBuskirk, Nancy Ellen  Binghamton, N. Y.
Vandermark, Charlotte J.  W. Long Branch, N. J.
Vannucci, Robert Charles  Williamsport
Varano, Lottie Andrew  Kulpmont
Vastine, Frederick, D.  Sinking Spring
Veri, A. Marie  Lancaster
Vitel, Urve  Seabrook, N. J.
Vilms, Mai Anne  Seabrook, N. J.  
Vlahos, James William  Pottstown  
Vogel, Patricia Ann  Sellersville  
Vokrot, Philip Hanry  Quakertown  
Vye, Diana Jeanne  Havertown  
Wade, Charles Gary  Spring City  
Wagman, Sheldon Paul  Burlington, N. J.  
Wagner, Mary Lou  Norristown  
Wagner, Robert Gordon  Norristown  
Wagner, Susan  Cheltenham  
Waite, Richard E.  Oceanport, N. J.  
Waldenberger, Martin J.  Graterford  
Walker, David E.  Abington  
Wanner, Norman Jr.  Malvern  
Walter, Jane Alice  Hatboro  
Walton, John Allan  Drexel Hill  
Warner, Mary F.  Cape May Court House, N. J.  
Warrell, John Albert Jr.  Conshohocken  
Watson, Donald Briggs  Camden, N. J.  
Watson, Robert Cole  Camden, N. J.  
Wear, Joseph W.  Gwynedd Valley  
Weatherley, Winifred Joanne  Elkins Park  
Wehr, William Harrison  Catasauqua  
Weiss, Charlotte Stephanie  Philadelphia  
Weiss, Donald J.  Philadelphia  
Weiss, Van  King of Prussia  
Weller, Carolyn Ruth  Aldan  
Weller, Michael H.  Philadelphia  
Wenhold, James William  Sellersville  
Wertz, John William  Frackville  
West, Donald Edward  Drexel Hill  
Wetterau, Jessica Ruth  Hicksville, N. Y.  
Wheeler, Elizabeth Anne  Madison, N. J.  
White, Glenn Robert  Royersford  
White, Marlene Mae  Norristown  
White, Peter Lockwood  Pennington, N. J.  
White, Twila Noreen  Glassboro, N. J.  
Whitehead, Janice E.  Schwenksville  
Whitehead, Mary Frances  Schwenksville  
Whitman, Joseph Spreckor  Downingtown  
Whittam, Judith Jean  King of Prussia  
Whittick, Patricia Mary  Camden, N. J.  
Wiard, Harold Fred  Merion  
Wiest, Roger Vaughn  Dalmatia  
Wildier, Brett Paxton  Bergenfield, N. J.  
Wilding, Susan M.  Keyport, N. J.  
Williams, David John  Beacon, N. Y.  
Williams, Elinor Tama  Moorestown  
Williams, Wayne David  Southold, N. Y.  
Williamson, Carol  Media  
Willis, Ann Elizabeth  Hastings-on-Hudson, N. Y.  
Wilson, Alvin James  Cressona  
Wilson, Mary B.  Haddonfield, N. J.  
Winchester, Thomas William  Philadelphia  
Wise, Peter Chapman  Pottstown  
Wise, Thomas Alan  Audubon, N. J.  
Witman, William Paul  Pottstown  
Witmer, Loretta May  Pillow  
Wood, Carol Elaine  Collegeville  
Woodcock, Linda Clare  Yardley  
Woodward, E. Ann  York  
Woodward, Virginia Mary  Mendenhall  
Woodward, John Thomas  Chester  
Woodruff, Richard Ira  Wayne, N. J.  
Wright, David John  Haddon Heights, N. J.  
Yonker, Lynne Marvill  Elkins Park  
Zall, Harry  Philadelphia  
Zarcone, Charles Ignatius  Norristown  
Zeigler, Theodore David  East Greenville  
Zelley, Albert Justis  Roslyn  
Zindel, Willard R. Jr.  Plymouth Meeting  
Zinger, Beverly Lorraine  Conshohocken
Alumni Association

OFFICERS — REGIONAL ALUMNI GROUPS 1958-1959

President—Paul I. Guest '38, 1316 Colton Rd., Gladwyne, Pa.
Vice-President—Mrs. John Eachus '33, 131 4th Ave., Phoenixville, Pa.
Secretary-Treasurer—Agnes J. Donahue '41, 556 Main St., Trappe-Collegeville, Pa.
Executive Secretary—Dr. Roger P. Staiger, 707 Chestnut St., Collegeville, Pa.

ALUMNI-AT-LARGE
Mrs. Richard Ballantyne '24, 31 E. Central Ave., Moorestown, N. J.
Floyd E. Justice '51, 45 Corson Rd., Conshohocken, Pa.
Elsie R. Belz '55, 1837 Prospect Ridge, Haddon Heights, N. J.

ALUMNI DIRECTORS
Rev. R. Maxwell Paine '26, 1700 W. Main St., Norristown, Pa.
Rev. Merritt Jeffers '29, 304 W. Main St., Myerstown, Pa.
Thomas P. Glassmoyer '36, Aurora Manor, Willow Grove, Pa.

FACULTY REPRESENTATIVES
Dr. Paul R. Wagner '32, 789 Main St., Collegeville, Pa.
Dr. G. Sieber Pancoast '37, 122 W. 7th Ave., Collegeville, Pa.

OFFICERS OF REGIONAL ALUMNI GROUPS 1958-1959

PHILADELPHIA
President—Mr. Wm. E. Turner '50, 4011 Fairway Rd., Lafayette Hill, Pa.
Vice-President—Mr. Forrest Sovring '49, 4013 Indian Guide Rd., Lafayette Hill, Pa.
Secretary—Mrs. James F. Hutton '38, 147 E. Old Gulph Rd., Wynnewood, Pa.
Treasurer—Mr. A. Galey Chandler '50, 51 W. Princeton Rd., Bala-Cynwyd, Pa.

NEW YORK
President—Thos. G. Phillips '52, 63 Raymond Ave., Hasbrock Hgts., N. J.
Vice-President—Mrs. Frank Munroe '22, 5 Edgewood Ave. Glen Head, L. I., N. Y.
Secretary—Phyllis H. Bauman '52, 20 Pelham Place, Bergenfield, N. J.
Treasurer—James W. Clayton '28, 20 Johnson Rd., West Orange, N. J.

SOUTH JERSEY
President—Richard H. Clark '48, 311 W. Redbank Ave., Woodbury, N. J.
Vice-President—Mrs. George R. McBath '32, 194 Delaware St., Woodbury, N. J.
Secretary—Mrs. John B. Lentz '31, 1106 Warwick Rd. Haddonfield, N. J.
Treasurer—Mr. Geo. E. Kennedy, Jr. '49, 24 E. Central Ave., Moorestown, N. J.

SCHUYLKILL VALLEY
President—David Bahney '49, Myerstown, Pa.
Vice-President—Thomas Clark '27, 210 Emerald Ave., Reading, Pa.
Secretary-Treasurer—Mrs. Edward J. Tullis '42, 202 N. Sixth Ave., Royersford, Pa.

YORK
President—Charles M. Bowen '41, 761 Greendale Rd., York, Pa.
Vice-President—Samuel S. Laucks, Jr. '39, 105 W. Broadway, Red Lion, Pa.
Secretary—Mrs. Curtis M. Gross '34, 739 Florida Ave., York, Pa.
Treasurer—Elmer M. Morris '33, 1534 4th Ave., York, Pa.

LEHIGH VALLEY
President—Mrs. Lewis J. Dreisback, Jr. '45, R.D. No. 4, Easton, Pa.
Treasurer—Mr. Archibald Simons '46, 1815 Lehigh Ave., Easton, Pa.

WASHINGTON
President—Thos. J. Beddow '36, 5700 Overlea Rd., Sumner, Md.
Vice-President—Richard H. Henschel '34, 4800 Broad Brook Ct., Bethesda, Md.
Secretary—Mrs. Thos. Zimmerman '33, 3900 N. Dumbarton St., Arlington, Va.
Treasurer—Paul E. Elicker '14, 5301 Carvel Rd., Washington 16, D.C.
Index

Absences .................. 35
Academic Council .......... 14
Acceleration ............... 31
Accreditation ............. 18
Accounting, Courses in ... 59, 60
   Special Concentration . 58
Activities ................ 15
Administration ........... 35
Admission ................ 25
Advanced Standing ......... 27
Advisers .................. 49
List ...................... 14
Alumni Association ....... 111
Astronomy, see Physics ....
Athletics ................ 19
   Activities ............. 19
   Courses in .............
   Admission ............. 25
   Advancement .......... 27
   Advisers ............... 49
Board .................... 35
Botany, see Biology ......
Calendar ................ 4, 5
Camp for Women ........... 38
   Advisers ............... 49
   Directors ............... 35
   Courses in ............. 95
   Departmental Requirements . 95
   College Principles .... 16
   Commencement Day .... 35
   Committees of Board of Directors .... 7
   Committees of the Faculty ..... 15
   Correspondence With the College .... 2
   Courses of Instruction .... 51
   Degrees Awarded in 1957 .... 98
   Degrees ............... 37
   Bachelor of Arts ....... 50
   Bachelor of Science .... 50
   Departmental Requirements . 92
   Directors of the College .. 6
   Dormitories ............ 23
   Drafting ............... 57
   Economics, Courses in ... 58
      Departmental Requirements . 92
      Special Concentration ....
      Education, Courses in ... 60
      Educational Program .... 49
      Engineering Program .... 26
      Departmental Requirements . 8
   English, Courses in ..... 64
      Departmental Requirements . 92
   Evening School .......... 28
   Expenses ............... 32
   Faculty ................ 10
   Fees .................. 32
   Finance, Courses in .... 58
      Special Concentration ....
      French, Courses in .... 88
      Departmental Requirements . 94
   Geography ............. 77
   Geology, Descriptive ....
   German, Courses in ...... 67
      Departmental Requirements . 92
   Government, see Political Science ....
   Grades of Scholarship .... 36
   Graduation ............. 37
   Requirements for ....... 50
   Greek, Courses in .......
   Departmental Requirements (see Classics) .... 92
   Gymnasiurns ............ 22
   Health and Physical Education, Courses in ... 69
   Departmental Requirements . 93
   History, Courses in .... 72
      Departmental Requirements . 93
   Historical Sketch ....... 37
   Honors ................ 37
   Awarded in 1957 ....... 98
   Industrial Relations, Courses in ....
      (See Economics) ...... 58
   Special Concentration ....
   Italian, Courses in .... 89
   Latin, Courses in ....... 57
   Departmental Requirements (see Classics) .... 92
   Library ................ 77
   Loan Funds ............. 40
   Majors, Requirements for .... 92
   Mathematics, Courses in .... 75
   Departmental Requirements . 93
   Matriculation .......... 25
   Medical Service ......... 38
   Music, Courses in ....... 57
   Private Lessons ......... 33
   Officers of the Corporation .... 7
   Organizations .......... 39
   Part-Time Students .... 27
   Payments ............... 32
   Philosophy, Courses in .... 80
   Physical Education Activities ... 69
   Physician .............. 38
   Physics, Courses in ....... 81
   Departmental Requirements . 95
   Placement Bureau ....... 40
   Political Science, Courses in .... 83
   Departmental Requirements . 93
   Post Office ............ 23
   Prizes ................ 40
   Awarded in 1957 ....... 98
   Programs in Special Fields .... 29
   Psychology, Courses in .... 85
   Departmental Requirements . 94
   Publications ............ 20
   Public Speaking, Courses in .... 49
   Registrations ........... 49
   Religion, Courses in .... 87
   Requirements for Graduation ....
   Resident Students ....... 30
   Rooms and Meals ......... 35
   Romance Languages, Courses in .... 88
   Departmental Requirements . 94
   Russian, Courses in ....... 91
   Scholarships .......... 39
   Applications ........... 39
   Funds ................ 43
   Sociology, Courses in .... 91
   Spanish, Courses in ....... 90
   Departmental Requirements . 94
   Special Students ....... 27
   Student Bureau of Employment ....
   Students, List of ....... 101
   Summer School .......... 28
   Supply Store ............ 23
   Swedish, Courses in ....... 69
   Teaching, Requirements for Certification ....
   Terms and Variations ....
   Transfer Students ....... 27
   Tuition ............... 32
   Tuition Exchange Program .... 28
   Zoology, see Biology ....

112