PATHWAY TO POST-SECONDARY SUCCESS

WEIGHTED GRADE VALUES FOR RANGER UNIVERSITY CLASSES

<table>
<thead>
<tr>
<th>GRADE</th>
<th>NON-WEIGHTED GRADE VALUE</th>
<th>WEIGHTED GRADE VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.0</td>
<td>5.0</td>
</tr>
<tr>
<td>A-</td>
<td>3.7</td>
<td>4.625</td>
</tr>
<tr>
<td>B+</td>
<td>3.3</td>
<td>4.125</td>
</tr>
<tr>
<td>B</td>
<td>3.0</td>
<td>3.75</td>
</tr>
<tr>
<td>B-</td>
<td>2.7</td>
<td>3.375</td>
</tr>
<tr>
<td>C+</td>
<td>2.3</td>
<td>2.875</td>
</tr>
<tr>
<td>C</td>
<td>2.0</td>
<td>2.5</td>
</tr>
<tr>
<td>C-</td>
<td>1.7</td>
<td>2.125</td>
</tr>
<tr>
<td>D+</td>
<td>1.3</td>
<td>1.625</td>
</tr>
<tr>
<td>D</td>
<td>1.0</td>
<td>1.25</td>
</tr>
<tr>
<td>D-</td>
<td>.7</td>
<td>.875</td>
</tr>
</tbody>
</table>

*You may have the opportunity to earn college credit for Ranger U courses. Watch for the (U).

RECOMMENDED COURSES
Seek a balanced approach (challenging courses + good grades)

+ CAREER EXPOSURE
(MCIS– Personal Learning Plan – career assessments, speakers, conversations)

+ WORK BASED LEARNING
(tours, job shadowing, internships, pre-apprenticeships)

+ ACTIVITIES AND/OR CREDENTIALS
(clubs, certifications, etc.)

= POST-SECONDARY SUCCESS

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**DID YOU KNOW?**

OF FOREST LAKE AREA HIGH SCHOOL STUDENTS WANT TO OBTAIN A CERTIFICATE OR DEGREE.

89%

53%

75%

OF FOREST LAKE AREA HIGH SCHOOL GRADS HAVE COMPLETED A CERTIFICATE, ASSOCIATE DEGREE, OR BACHELOR’S DEGREE IN 6 YEARS.

OF FOREST LAKE AREA HIGH SCHOOL GRADS HAVE ENROLLED IN COLLEGE.

MEETING WORKFORCE NEEDS IN 2020

65%

% OF JOBS THAT WILL REQUIRE POST-SECONDARY EDUCATION AND TRAINING BEYOND HIGH SCHOOL

POST-SECONDARY EDUCATION = COLLEGE
TRAINING = APPRENTICESHIP

SINCE 2008, FLAHS GRADUATES HAVE EARNED:

<table>
<thead>
<tr>
<th>Certificate, Diploma</th>
<th>Associate Degree</th>
<th>Bachelor’s Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>6%</td>
<td>12%</td>
<td>42%</td>
</tr>
</tbody>
</table>

TO BE SURE YOU:
GRADUATE FROM HIGH SCHOOL,
STAY IN COLLEGE (TRAINING),
DECREASE COLLEGE (TRAINING) COMPLETION TIME, AND
MEET WORKFORCE DEMANDS

55% COMPARED TO 32%

FLAHS STUDENTS TAKE 1 OR MORE AP CLASSES

STATE AVERAGE TAKING 1 OR MORE AP CLASSES

YOU SHOULD:
• Take career and technical courses.
• Research careers and educational requirements using MCIS.
• Take Ranger U courses.
• Develop goals.

WHY TAKE RANGER U COURSES?
• Develop critical thinking skills.
• Challenge yourself and experience college level coursework.
• Increase chances of graduating from your college program on time.
• Earn college credit.
EDUCATION LEVEL STILL MATTERS, AND GENERALLY MORE EDUCATION IS BETTER.
Median earnings increase with each additional level of educational attainment. (National Data)

<table>
<thead>
<tr>
<th>Education Level</th>
<th>Median Earnings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduate Degree</td>
<td>$80,000</td>
</tr>
<tr>
<td>Bachelor’s Degree</td>
<td>$62,000</td>
</tr>
<tr>
<td>Associate’s Degree</td>
<td>$47,000</td>
</tr>
<tr>
<td>Some College</td>
<td>$42,000</td>
</tr>
<tr>
<td>High School Diploma</td>
<td>$36,000</td>
</tr>
<tr>
<td>Less Than High School</td>
<td>$27,000</td>
</tr>
</tbody>
</table>

BA holder median earnings are almost 2x the median earnings of workers with a high school diploma.

Source: Georgetown University Center on Education and the Workforce analysis of American Community Survey (ACS): 2009-2016 pooled one-year level microdata files.
EDUCATION LEVEL MATTERS, BUT PROGRAM OF STUDY AND MAJORS MATTER EVEN MORE.

The difference in earnings between the highest (architecture and engineering) and lowest (education) bachelor’s degrees is $39,000. (National Data)

MEDIAN EARNINGS BY FIELD OF STUDY & DEGREE

The median earnings of every bachelor’s and graduate degree are higher than the median earnings of a worker with just a high school diploma.

BAs in architecture and engineering lead to median annual earnings of $85,000. This is more than 2x the median earnings of a worker with a high school diploma and $5,000 higher than the median earnings of a graduate degree holder.

Other majors earn considerably less. The median annual earnings of education majors are $46,000. This is still almost 30% more than the median earnings of a worker with a high school diploma.

Source: Georgetown University Center on Education and the Workforce analysis of American Community Survey (ACS): 2009-2016 pooled one-year person level microdata files.
WHILE FIELD OF STUDY IS IMPORTANT, IT DOES NOT CONTROL ONE’S FINANCIAL DESTINY—THERE IS GREAT VARIATION IN EARNINGS WITHIN MAJORS.

The 25th percentile of architecture and engineering majors earn less than the 75th percentile of majors in either the arts or humanities and the liberal arts. (National Data)

MEDIAN EARNINGS BY FIELD OF STUDY—TOP EARNERS VS. LOW EARNERS

$67,000 is the median annual earnings for a worker with a bachelor’s degree in business. But, 25% of workers who majored in business are earning more than $100,000 a year. The top 25% of education majors earn almost as much as the bottom 25% of architecture and engineering majors.

Source: Georgetown University Center on Education and the Workforce analysis of American Community Survey (ACS): 2009-2016 pooled one-year person level microdata files.
LESS EDUCATION CAN BE WORTH MORE.

Some certificates pay more than some associate’s degrees, some associate’s degrees pay higher than some bachelor’s degrees, and some bachelor’s degrees result in higher earnings than some graduate degrees. (National Data)

MEDIAN EARNINGS COMPARISON BY EDUCATION LEVEL & FIELD OF STUDY

Associate’s degree holders who studied STEM earn $60,000 annually. This is more than bachelor’s degree holders who majored in the humanities and liberal arts.

Education majors need a graduate degree to achieve the median earnings of a bachelor’s degree holder, as do arts and psychology and social work majors.

Biology and life sciences majors experience the largest bump in earnings from a graduate degree.

TWIN CITIES METRO AREA OCCUPATIONS IN HIGH DEMAND BY EDUCATION LEVEL

<table>
<thead>
<tr>
<th>HIGH SCHOOL OR EQUIVALENT</th>
<th>SOME COLLEGE OR ASSOC. DEGREE</th>
<th>BACHELOR’S DEGREE OR HIGHER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sales Representatives, Wholesale &amp; Manufacturing</td>
<td>$66,046</td>
<td>Registered Nurses</td>
</tr>
<tr>
<td>FirstLine Supervisors of Office &amp; Admin. Workers</td>
<td>$60,819</td>
<td>Surgical Technologists</td>
</tr>
<tr>
<td>Heavy &amp; Tractor-Trailer Truck Drivers</td>
<td>$47,514</td>
<td>Industrial Engineering Technicians</td>
</tr>
<tr>
<td>FirstLine Supervisors of Retail Sales Workers</td>
<td>$42,717</td>
<td>Computer User Support Specialists</td>
</tr>
<tr>
<td>Secretaries &amp; Administrative Assistants</td>
<td>$42,095</td>
<td>Machinists</td>
</tr>
<tr>
<td>Customer Service Representatives</td>
<td>$39,274</td>
<td>Medical Records &amp; Health Information Technicians</td>
</tr>
<tr>
<td>Office Clerks, General</td>
<td>$36,562</td>
<td>Licensed Practical &amp; Licensed Vocational Nurses</td>
</tr>
<tr>
<td>FirstLine Supervisors of Food Prep &amp; Serving Workers</td>
<td>$34,133</td>
<td>Automotive Service Technicians &amp; Mechanics</td>
</tr>
<tr>
<td>Teacher Assistants</td>
<td>$32,589</td>
<td>Nursing Assistants</td>
</tr>
<tr>
<td>Team Assemblers</td>
<td>$30,496</td>
<td>Hairdressers, Hairstylists, &amp; Cosmetologists</td>
</tr>
</tbody>
</table>

Source: Georgetown University Center on Education and the Workforce analysis of data from the US Census Bureau’s American Community Survey (2009-2016 pooled one-year person level microdata files) and Survey of Income and Program Participation (2004/2008 combined panels).
## Grade 9 Goals

### Identify Career Pathway of Interest
- Understand GPA implications
- Assess activity/service involvement
- Identify intended lifestyle
- Begin Personal Learning Plan (PLP) and goals
- Attend College Fair

### Identify Career Cluster of Interest
- Reassess intended lifestyle
- Continue Personal Learning Plan
- Assess activity/service involvement
- Attend College Fair

### Identify Career of Interest
- Motivation and Purpose
- Establish Job Shadow Opportunity
- PSAT Registration
- Continue Personal Learning Plan
- Assess activity/service involvement
- Attend College Fair

### Identify Program of Study/Training Required for Career of Interest
- Identify how (college, apprenticeship, military)
- Complete Resume
- Attend College Fair
- Apply to college, apprenticeship, and/or military
- Senior Year Checklist

### 1st Quarter

- Career Exploration with MCIS
- Attend Career Exploration Info Session and reflect

### 2nd Quarter

- Revisit study skills
- Identify strengths/skills
- Review credits to see if you’re on track to graduate
- Pathway planning and course selection for following year’s course registration
- MCIS

### 3rd Quarter

- Revisit study skills
- Review credits to see if you’re on track to graduate
- Pathway planning and course selection for following year’s course registration
- MCIS

### 4th Quarter

- Professional skill development
- Attend Career Exploration Info Session
- Update PLP
- Consider summer opportunities

## Grade 10 Goals

### Identify Career Pathway of Interest
- Understand GPA implications
- Assess activity/service involvement
- Identify intended lifestyle
- Begin Personal Learning Plan (PLP) and goals
- Attend College Fair

### Identify Career Cluster of Interest
- Success in the New Economy
- Attend Career Exploration Info Session and reflect

### Identify Career of Interest
- Motivation and Purpose
- Establish Job Shadow Opportunity
- PSAT Registration
- Continue Personal Learning Plan
- Assess activity/service involvement
- Attend College Fair

### Identify Program of Study/Training Required for Career of Interest
- Identify how (college, apprenticeship, military)
- Complete Resume
- Attend College Fair
- Apply to college, apprenticeship, and/or military
- Senior Year Checklist

### 1st Quarter

- Career Exploration with MCIS
- Attend Career Exploration Info Session and reflect

### 2nd Quarter

- Revisit study skills
- Identify strengths/skills
- Review credits to see if you’re on track to graduate
- Pathway planning and course selection for following year’s course registration
- MCIS

### 3rd Quarter

- Revisit study skills
- Review credits to see if you’re on track to graduate
- Pathway planning and course selection for following year’s course registration
- MCIS

### 4th Quarter

- Professional skill development
- Attend Career Exploration Info Session
- Update PLP
- Consider summer opportunities

## Grade 11 Goals

### Identify Career Pathway of Interest
- Understand GPA implications
- Assess activity/service involvement
- Identify intended lifestyle
- Begin Personal Learning Plan (PLP) and goals
- Attend College Fair

### Identify Career Cluster of Interest
- Success in the New Economy
- Attend Career Exploration Info Session and reflect

### Identify Career of Interest
- Motivation and Purpose
- Establish Job Shadow Opportunity
- PSAT Registration
- Continue Personal Learning Plan
- Assess activity/service involvement
- Attend College Fair

### Identify Program of Study/Training Required for Career of Interest
- Identify how (college, apprenticeship, military)
- Complete Resume
- Attend College Fair
- Apply to college, apprenticeship, and/or military
- Senior Year Checklist

### 1st Quarter

- Career Exploration with MCIS
- Attend Career Exploration Info Session and reflect

### 2nd Quarter

- Pathway planning and course selection for following year’s course registration
- ACT Preparation
- Understand types of colleges and college choice
- Establish Job Shadow experience

### 3rd Quarter

- Pathway planning and course selection for following year’s course registration
- ACT Preparation
- Understand types of colleges and college choice
- Establish Job Shadow experience

### 4th Quarter

- Professional skill development
- Attend Career Exploration Info Session
- Update PLP
- Consider summer opportunities

## Grade 12 Goals

### Identify Program of Study/Training Required for Career of Interest
- Identify how (college, apprenticeship, military)
- Complete Resume
- Attend College Fair
- Apply to college, apprenticeship, and/or military
- Senior Year Checklist

### 1st Quarter

- Career Exploration with MCIS
- Attend Career Exploration Info Session and reflect

### 2nd Quarter

- Apply for scholarships
- Complete Personal Learning Plan
- Decision-making tool

### 3rd Quarter

- Apply for scholarships
- Complete Personal Learning Plan
- Decision-making tool

### 4th Quarter

- Compare award letters
- Make decision (exact school, apprenticeship, military branch, job, or service opportunity)
- Attend Career Exploration Info Session and/or personal finance session
EXPLORATORY PATHWAY

The exploratory pathway affords students who are unsure of their interests an opportunity to explore many different aspects of the career wheel through their elective course selections. Ideally, this pathway will give students the chance to explore multiple career pathways leading to an area of focus upon graduation.

<table>
<thead>
<tr>
<th>CORE COURSES</th>
<th>ACTIVITIES/CREDSNTIALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Class(es)</td>
<td>Participate in clubs/sports – try new activities</td>
</tr>
<tr>
<td>Visual/Performing Arts Class(es)</td>
<td>Develop leadership skills through clubs, sports, work, service, etc.</td>
</tr>
<tr>
<td>Agriculture Class(es)</td>
<td></td>
</tr>
<tr>
<td>Family and Consumer Science Class(es)</td>
<td></td>
</tr>
<tr>
<td>Industrial Technology Class(es)</td>
<td></td>
</tr>
<tr>
<td>World Language Class(es)</td>
<td></td>
</tr>
<tr>
<td>Social Studies Class(es)</td>
<td></td>
</tr>
<tr>
<td>Physical Education Class(es)</td>
<td></td>
</tr>
</tbody>
</table>
AGRICULTURE, FOOD AND NATURAL RESOURCES

- Animal Systems
- Agribusiness Systems
- Environmental Service Systems
- Food Products and Processing Systems
- Natural Resources Systems
- Plant Systems
- Power, Structural and Technical Systems

ANIMAL SCIENCES PATHWAY

<table>
<thead>
<tr>
<th>RECOMMENDED CAREER AND TECHNICAL COURSES</th>
<th>RECOMMENDED ACTIVITIES/CREDENTIALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>0300 – Animal Science (9-12)</td>
<td>FFA</td>
</tr>
<tr>
<td>0306 – Companion Animal Science (9-12)</td>
<td>Attend INTENSE Conference</td>
</tr>
<tr>
<td>0305 – Animal Health and Veterinary Science (11-12)</td>
<td>Environmental Club</td>
</tr>
<tr>
<td>0303 – CIS Animal Science (11-12) (U)</td>
<td>Take TSA (Technical Skills Assessments) when available.</td>
</tr>
<tr>
<td>0400 – Horse &amp; Horsemanship (9-12)</td>
<td>Develop leadership skills through clubs, sports, work, service, etc.</td>
</tr>
<tr>
<td>0205 – Fish &amp; Wildlife Mgmt. (9-12)</td>
<td></td>
</tr>
<tr>
<td>6611 – Human Anatomy and Physiology (12)</td>
<td></td>
</tr>
<tr>
<td>0810 – Biotech in Agri-Science (11-12)</td>
<td></td>
</tr>
<tr>
<td>0650 – Agricultural Economics (11-12)</td>
<td></td>
</tr>
<tr>
<td>0001/0004 – Youth Leadership A/B (9-12)</td>
<td></td>
</tr>
<tr>
<td>0800 – Agriculture Today (11-12)</td>
<td></td>
</tr>
<tr>
<td>0841/0842 – Senior Agriculture - Career Investigation A/B</td>
<td></td>
</tr>
</tbody>
</table>

OCCUPATIONS (MN state data)

<table>
<thead>
<tr>
<th>VETERINARIAN</th>
<th>ZOOLOGISTS/ WILDLIFE BIOLOGISTS</th>
<th>VET TECH</th>
<th>ANIMAL TRAINER</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVERAGE ANNUAL SALARY</td>
<td>AVERAGE ANNUAL SALARY</td>
<td>AVERAGE ANNUAL SALARY</td>
<td>AVERAGE ANNUAL SALARY</td>
</tr>
<tr>
<td>$76,638</td>
<td>$57,243</td>
<td>$37,440</td>
<td>$39,356</td>
</tr>
</tbody>
</table>

OUTLOOK: INCREASING DEMAND

EDUCATION

Doctoral Degree

Bachelor’s Degree

Associate’s Degree

For more agriculture career related information, visit https://www.agexplorer.com/
Agriculture, Food and Natural Resources

- Animal Systems
- Agribusiness Systems
- Environmental Service Systems
- Food Products and Processing Systems
- Natural Resources Systems
- Plant Systems
- Power, Structural and Technical Systems

Plant Sciences Pathway

<table>
<thead>
<tr>
<th>RECOMMENDED CAREER AND TECHNICAL COURSES</th>
<th>RECOMMENDED ACTIVITIES/ CREDENTIALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>0504 – Greenhouse Technology (9-12) (U)</td>
<td>FFA</td>
</tr>
<tr>
<td>0505 – Floral Design (9-12)</td>
<td>Attend INTENSE Conference</td>
</tr>
<tr>
<td>0201 – Natural Resource Science (9-12)</td>
<td>Environmental Club</td>
</tr>
<tr>
<td>0502 – Landscape Design and Construction (9-12) (U)</td>
<td>Take TSA (Technical Skills Assessments) when available.</td>
</tr>
<tr>
<td>0501 – Plant Science - Concepts (10-12) (U)</td>
<td>Develop leadership skills through clubs, sports, work, service, etc.</td>
</tr>
<tr>
<td>0200 – Alternative Energy</td>
<td></td>
</tr>
<tr>
<td>0810 – Biotech in Agri-Science (11-12)</td>
<td></td>
</tr>
<tr>
<td>0650 – Agricultural Economics (11-12)</td>
<td></td>
</tr>
<tr>
<td>0001/0004 – Youth Leadership A/B (9-12)</td>
<td></td>
</tr>
<tr>
<td>0800 – Agriculture Today (11-12)</td>
<td></td>
</tr>
<tr>
<td>0841/0842 – Senior Agriculture - Career Investigation A/B</td>
<td></td>
</tr>
</tbody>
</table>

Occupations (MN state data)

- **Food Scientist**
  - Average Annual Salary: $68,512
  - Outlook: Increasing Demand
  - Education: Bachelor’s Degree

- **Oil & Plant Scientist**
  - Average Annual Salary: $61,975
  - Outlook: Increasing Demand
  - Education: Bachelor’s Degree

- **Landscape Architect**
  - Average Annual Salary: $58,399
  - Outlook: Above Average
  - Education: Associate’s Degree

- **Nursery Worker**
  - Average Annual Salary: $21,530
  - Outlook: Increasing Demand
  - Education: High School Diploma

https://agcentric.org/what-we-do/career-planning/career-pathways-resources/
AGRICULTURE, FOOD, AND NATURAL RESOURCES

- Animal Systems
- Agribusiness Systems
- Environmental Service Systems
- Food Products and Processing Systems
- Natural Resources Systems
- Plant Systems
- Power, Structural and Technical Systems

FIRE PREVENTION ENGINEER
AVERAGE ANNUAL SALARY $69,509
OUTLOOK: INCREASING DEMAND
EDUCATION Bachelor’s Degree

ENVIRONMENTAL SCIENTIST
AVERAGE ANNUAL SALARY $65,208
OUTLOOK: INCREASING DEMAND
EDUCATION Bachelor’s Degree

SOIL & WATER CONSERVATIONIST
AVERAGE ANNUAL SALARY $53,149
OUTLOOK: ABOVE AVERAGE
EDUCATION Bachelor’s Degree

CONSERVATION TECHNICIAN
AVERAGE ANNUAL SALARY $34,128
OUTLOOK: INCREASING DEMAND
EDUCATION Associate’s Degree

NATURAL RESOURCES PATHWAY

RECOMMENDED CAREER AND TECHNICAL COURSES

- 0201 – Natural Resource Science (9-12)
- 6605 – Environmental Science (11-12)
- 0205 – Fish and Wildlife Mgmt (9-12)
- 0501 – Plant Science Concepts (10-12) (U)
- 6805 – Meteorology (10-12)
- 0810 – Biotech in Agri-Science (11-12)
- 0650 – Agricultural Economics (11-12)
- 0001/0004 – Youth Leadership A/B (9-12)
- 0800 – Agriculture Today (11-12)
- 0841/0842 – Senior Agriculture - Career Investigation A/B

RECOMMENDED ACTIVITIES/ CREDENTIALS

- FFA
- Attend INTENSE Conference
- Environmental Club
- Take TSA (Technical Skills Assessments) when available.
- Develop leadership skills through clubs, sports, work, service, etc.

https://agcentric.org/what-we-do/career-planning/career-pathways-resources/
ARTS, AUDIO/VIDEO TECHNOLOGY & COMMUNICATIONS

- Audio/Video Technology and Film
- Journalism and Broadcasting
- Performing Arts
- Printing Technology
- Communication Technology
- Visual Arts

ARTS, AUDIO/VIDEO TECHNOLOGY & COMMUNICATIONS PATHWAY

RECOMMENDED CAREER AND TECHNICAL COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Grade Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>1002</td>
<td>Intro to Art</td>
<td>9-12</td>
</tr>
<tr>
<td>1006</td>
<td>Art Exploration</td>
<td>9-12</td>
</tr>
<tr>
<td>1610</td>
<td>Digital Imaging</td>
<td>9-12</td>
</tr>
<tr>
<td>1110</td>
<td>Drawing &amp; Painting</td>
<td>9-12</td>
</tr>
<tr>
<td>1320</td>
<td>Drawing &amp; Printmaking</td>
<td>10-12</td>
</tr>
<tr>
<td>1410</td>
<td>Related Arts (Mixed-media and Jewelry)</td>
<td>10-12</td>
</tr>
<tr>
<td>1200</td>
<td>Photography I</td>
<td>9-12</td>
</tr>
<tr>
<td>4701/4702</td>
<td>Yearbook A/B</td>
<td>11-12</td>
</tr>
<tr>
<td>4405</td>
<td>Technical Theatre</td>
<td>10-12</td>
</tr>
<tr>
<td>4406</td>
<td>Theatre Directing &amp; Performance</td>
<td>11-12</td>
</tr>
<tr>
<td>4105</td>
<td>Speech</td>
<td>10-12</td>
</tr>
<tr>
<td>4115</td>
<td>CIS Advanced Public Speaking</td>
<td>11-12</td>
</tr>
<tr>
<td>4116</td>
<td>Argumentation</td>
<td>10-12</td>
</tr>
<tr>
<td>4206</td>
<td>College Prep Composition</td>
<td>11-12</td>
</tr>
<tr>
<td>4220</td>
<td>CIS University Writing &amp; Critical Reading</td>
<td>12</td>
</tr>
<tr>
<td>4020/4021</td>
<td>AP English Language and Composition A/B</td>
<td>11-12</td>
</tr>
</tbody>
</table>

RECOMMENDED ACTIVITIES/CREDENTIALS

- We Are Rangers (video club)
- Political Action Committee
- School play
- Speech
- Debate
- FFA
- Develop leadership skills through clubs, sports, work, service, etc.

PUBLIC RELATIONS & FUNDRAISING MANAGER

- Average Annual Salary: $110,067
- Outlook: Increasing Demand
- Education: Bachelor’s Degree

REPORTERS AND CORRESPONDENTS

- Average Annual Salary: $68,972
- Outlook: Decreasing Demand
- Education: Bachelor’s Degree

PUBLIC RELATIONS SPECIALIST

- Average Annual Salary: $59,904
- Outlook: Above Average
- Education: Bachelor’s Degree

CAREER IN THE ARTS

- Outlook: Variable
- Education: Variable

https://mn.gov/deed/data/data-tools/career-education-explorer/
**INFORMATION TECHNOLOGY**
- Information Support and Services
- Network Systems
- Programming and Software Development
- Web and Digital Communications

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**INFORMATION TECHNOLOGY PATHWAY**

<table>
<thead>
<tr>
<th>RECOMMENDED CAREER AND TECHNICAL COURSES</th>
<th>RECOMMENDED ACTIVITIES/ CREDENTIALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>2022 – Web Design &amp; Social Media Marketing (9-12)</td>
<td>Robotics Club</td>
</tr>
<tr>
<td>2040 – Business Information Systems (10-12) (U)</td>
<td>Gaming Club</td>
</tr>
<tr>
<td>2050 – Business Computer Applications (10-12) (U)</td>
<td>Supermileage Challenge</td>
</tr>
<tr>
<td>1550/1551 – Media &amp; Technology Support Team A/B (10-12)</td>
<td>Develop leadership skills through clubs, sports, work, service, etc.</td>
</tr>
<tr>
<td>5436 – Intro to C++ (9-12)</td>
<td>Complete A+ Certificate</td>
</tr>
<tr>
<td>5445/5446 – AP Computer Science A/B (11-12) (U)</td>
<td></td>
</tr>
<tr>
<td>1610 – Digital Imaging (9-12)</td>
<td></td>
</tr>
<tr>
<td>1620 – Advanced Digital Imaging (10-12)</td>
<td></td>
</tr>
</tbody>
</table>

---

**OCCUPATIONS** (Twin Cities Metro Area Data from DEED)

<table>
<thead>
<tr>
<th>OCCUPATION</th>
<th>AVERAGE ANNUAL SALARY</th>
<th>OUTLOOK:</th>
<th>EDUCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>COMPUTER &amp; INFORMATION SYSTEM MANAGER</strong></td>
<td>$141,775</td>
<td>HIGH DEMAND</td>
<td>Bachelor’s Degree</td>
</tr>
<tr>
<td><strong>COMPUTER NETWORK ARCHITECT</strong></td>
<td>$105,249</td>
<td>HIGH DEMAND</td>
<td>Bachelor’s Degree</td>
</tr>
<tr>
<td><strong>INFORMATION SECURITY ANALYST</strong></td>
<td>$95,843</td>
<td>HIGH DEMAND</td>
<td>Bachelor’s Degree</td>
</tr>
<tr>
<td><strong>DATABASE ADMINISTRATOR</strong></td>
<td>$90,710</td>
<td>HIGH DEMAND</td>
<td>Bachelor’s Degree</td>
</tr>
<tr>
<td><strong>WEB DEVELOPER</strong></td>
<td>$78,677</td>
<td>HIGH DEMAND</td>
<td>Bachelor’s Degree</td>
</tr>
<tr>
<td><strong>COMPUTER USER SUPPORT SPECIALIST</strong></td>
<td>$55,413</td>
<td>HIGH DEMAND</td>
<td>Associate’s Degree</td>
</tr>
</tbody>
</table>

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https://mn.gov/deed/data/data-tools/career-education-explorer/
ARCHITECTURE/CONSTRUCTION PATHWAY

RECOMMENDED CAREER AND TECHNICAL COURSES

- 3700 – Introduction to Computer Aided Drafting (9-12)
- 3991 – Metals (9)
- 3992 – Woods (9)
- 3000 – Cabinetmaking I (10-12)
- 3010 – Cabinetmaking II (10-12)
- 3015 – Carpentry I (10-12)
- 3025/3026 – Carpentry II A/B (11-12)
- 3710 – Architecture I (10-12)
- 3720 – Architecture II (10-12)
- 3730 – Architecture III (10-12)
- 3150 – Intro to Metals Technology (10-12) (U)
- 3162 – Welding & Machine Tool Technology (10-12) (U)
- 3155 – Metal Fabrication (11-12)
- 3300 – Electricity/Electronics I (9-12)
- 3310 – Electricity/Electronics II (10-12)
- 1110 – Drawing & Painting (9-12) and
- 1120 – Advanced Drawing & Painting (10-12)
- 1310 – Drawing & Printmaking (9-12) and
- 1320 – Advanced Drawing & Printmaking (10-12)

RECOMMENDED ACTIVITIES/ CREDENTIALS

- Complete OSHA 10 certification
- Complete welding certificate
- Attend Construct Tomorrow field trip
- Develop leadership skills through clubs, sports, work, service, etc.

ARCHITECTURAL MANAGER
AVERAGE ANNUAL SALARY
$142,081
OUTLOOK:
INCREASING DEMAND
EDUCATION
Bachelor’s Degree

CONSTRUCTION MANAGER
AVERAGE ANNUAL SALARY
$92,560
OUTLOOK:
INCREASING DEMAND
EDUCATION
Bachelor’s Degree

ELECTRICIAN
AVERAGE ANNUAL SALARY
$80,766
OUTLOOK:
INCREASING DEMAND
EDUCATION
Post-secondary Diploma and/or Apprenticeship

PLUMBER
AVERAGE ANNUAL SALARY
$80,460
OUTLOOK:
INCREASING DEMAND
EDUCATION
Post-secondary Diploma and/or Apprenticeship

CONSTRUCTION LABORER
AVERAGE ANNUAL SALARY
$58,158
OUTLOOK:
INCREASING DEMAND
EDUCATION
High School Diploma

https://mn.gov/deed/data/data-tools/career-education-explorer/
MANUFACTURING/AUTOMOTIVE

- Production
- Manufacturing Production
- Process Development
- Maintenance, Installation, and Repair
- Logistics and Inventory Control
- Quality Assurance
- Health, Safety and Environmental Assurance

MANUFACTURING/AUTOMOTIVE PATHWAY

<table>
<thead>
<tr>
<th>RECOMMENDED CAREER AND TECHNICAL COURSES</th>
<th>RECOMMENDED ACTIVITIES/ CREDENTIALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>3700 – Introduction to Computer Aided Drafting (9-12)</td>
<td>Complete OSHA 10 Certificate</td>
</tr>
<tr>
<td>3991 – Metals (9)</td>
<td>Complete Welding Certificate</td>
</tr>
<tr>
<td>3150 – Intro to Metals Technology (10-12) (U)</td>
<td>Super Mileage Challenge</td>
</tr>
<tr>
<td>3162 – Welding &amp; Machine Tool Technology (10-12) (U)</td>
<td>Attend Manufacturing Field Trips</td>
</tr>
<tr>
<td>3155 – Metal Fabrication (11-12)</td>
<td>Develop leadership skills through clubs, sports, work, service, etc.</td>
</tr>
<tr>
<td>3500 – Power Mechanics I (10-12)</td>
<td></td>
</tr>
<tr>
<td>3510 – Power Mechanics II (10-12)</td>
<td></td>
</tr>
<tr>
<td>3521/3522 – Auto Technology A/B (11-12)</td>
<td></td>
</tr>
<tr>
<td>5436 – Intro to C++ (9-12)</td>
<td></td>
</tr>
<tr>
<td>5445/5446 – AP Computer Science A/B (11-12)</td>
<td></td>
</tr>
</tbody>
</table>

OCCUPATIONS (Twin Cities Metro Area Data from DEED)

- AUTOMOTIVE SERVICE TECHNICIAN/MECHANIC
  - AVERAGE ANNUAL SALARY: $42,975
  - OUTLOOK: HIGH DEMAND
  - EDUCATION: Post-Secondary Certificate

- MACHINISTS
  - AVERAGE ANNUAL SALARY: $52,845
  - OUTLOOK: HIGH DEMAND
  - EDUCATION: Post-Secondary Certificate

- INDUSTRIAL MACHINERY MECHANICS
  - AVERAGE ANNUAL SALARY: $58,016
  - OUTLOOK: HIGH DEMAND
  - EDUCATION: Post-Secondary Certificate

- CNC OPERATOR
  - AVERAGE ANNUAL SALARY: $62,161
  - OUTLOOK: HIGH DEMAND
  - EDUCATION: Post-Secondary Certificate

https://mn.gov/deed/data/data-tools/career-education-explorer/
## Engineering Pathway

**Recommendations: Engineering and Technology, Science and Mathematics**

### Electrical Engineers
- **Average Annual Salary:** $91,887
- **Outlook:** Decreasing Demand
- **Education:** Bachelor’s Degree

### Industrial Engineers
- **Average Annual Salary:** $91,099
- **Outlook:** Unchanging Demand
- **Education:** Bachelor’s Degree

### Civil Engineers
- **Average Annual Salary:** $86,698
- **Outlook:** Increasing Demand
- **Education:** Bachelor’s Degree

### Mechanical Engineers
- **Average Annual Salary:** $83,681
- **Outlook:** Increasing Demand
- **Education:** Bachelor’s Degree

---

<table>
<thead>
<tr>
<th>Recommended Career and Technical Courses</th>
<th>Recommended Activities/Credentials</th>
</tr>
</thead>
<tbody>
<tr>
<td>3700 – Introduction to Computer Aided Drafting (9-12)</td>
<td>Complete OSHA 10 Certificate</td>
</tr>
<tr>
<td>3991 – Metals (9)</td>
<td>Robotics Club</td>
</tr>
<tr>
<td>3800 – Engineering &amp; Drafting I (10-12) (U)</td>
<td>Super Mileage</td>
</tr>
<tr>
<td>3810 – Engineering &amp; Drafting II (10-12)</td>
<td>Attend Manufacturing Field Trips</td>
</tr>
<tr>
<td>3300 – Electricity/Electronics I (9-12)</td>
<td>Develop leadership skills through clubs, sports, work, service, etc.</td>
</tr>
<tr>
<td>3310 – Electricity/Electronics II (10-12)</td>
<td></td>
</tr>
<tr>
<td>3150 – Intro to Metals Technology (10-12) (U)</td>
<td></td>
</tr>
<tr>
<td>3162 – Welding &amp; Machine Tool Technology (10-12) (U)</td>
<td></td>
</tr>
<tr>
<td>3155 – Metal Fabrication (11-12)</td>
<td></td>
</tr>
<tr>
<td>3500 – Power Mechanics I (10-12)</td>
<td></td>
</tr>
<tr>
<td>3510 – Power Mechanics II (10-12)</td>
<td></td>
</tr>
<tr>
<td>6907/6908/6909 – AP Physics A/B/C (9-12) (U)</td>
<td></td>
</tr>
<tr>
<td>6910/6911 – AP Physics – Mechanics A/B (Calc based) (11-12) (U)</td>
<td></td>
</tr>
<tr>
<td>5245/5246/5247 – Pre-Calculus A/B/C (10-12)</td>
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<tr>
<td>5255/5256 – AP Calculus I – A/B (11-12) (U)</td>
<td></td>
</tr>
<tr>
<td>5258/5258 – AP Calculus II – A/B and/or (U)</td>
<td></td>
</tr>
<tr>
<td>5445/5446 – AP Computer Science A/B (11-12) (U)</td>
<td></td>
</tr>
</tbody>
</table>

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**Recommended Activities/Credentials**
- Complete OSHA 10 Certificate
- Robotics Club
- Super Mileage
- Attend Manufacturing Field Trips
- Develop leadership skills through clubs, sports, work, service, etc.

---

**Engineering Pathway**

**Recommended Career and Technical Courses**

**Outlook: Decreasing Demand**

**Education:** Bachelor’s Degree

**Recommended Activities/Credentials**

**Complete OSHA 10 Certificate**

**Robotics Club**

**Super Mileage**

**Attend Manufacturing Field Trips**

**Develop leadership skills through clubs, sports, work, service, etc.**

---

**OCCUPATIONS**

[Twin Cities Metro Area Data from DEED](https://mn.gov/deed/data/data-tools/career-education-explorer/)

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[FLASCHOOLS.ORG](https://flaschools.org)
### HEALTH SCIENCE
- Biotechnology Research and Development
- Diagnostic Service
- Health Informatics
- Therapeutic Services

### HEALTH SCIENCE PATHWAY

#### RECOMMENDED CAREER AND TECHNICAL COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>2436</td>
<td>Intro to Health Care (12)</td>
<td></td>
</tr>
<tr>
<td>2450</td>
<td>Emergency Medical Responder (11-12)</td>
<td></td>
</tr>
<tr>
<td>2451/2452</td>
<td>Emergency Medical Technician A/B (12)</td>
<td></td>
</tr>
<tr>
<td>6701/6702</td>
<td>Chemistry A/B (10-11) and/or</td>
<td></td>
</tr>
<tr>
<td>6712/6713/6714</td>
<td>AP Chemistry A/B/C (10-12) (U)</td>
<td></td>
</tr>
<tr>
<td>6615/6616/6617</td>
<td>AP Biology A/B/C (11-12) (U)</td>
<td></td>
</tr>
<tr>
<td>6611</td>
<td>Human Anatomy and Physiology (12)</td>
<td></td>
</tr>
<tr>
<td>7306</td>
<td>Psychology (10-12) and/or</td>
<td></td>
</tr>
<tr>
<td>7316/7317</td>
<td>AP Psychology A/B (11-12) (U)</td>
<td></td>
</tr>
<tr>
<td>6118</td>
<td>Cardio, Core and Conditioning (11-12) and/or</td>
<td></td>
</tr>
<tr>
<td>6119</td>
<td>Aerobic &amp; Strength Training I (11-12)</td>
<td></td>
</tr>
<tr>
<td>6129</td>
<td>Aerobic &amp; Strength Training II (11-12)</td>
<td></td>
</tr>
</tbody>
</table>

#### RECOMMENDED ACTIVITIES/ CREDENTIALS

- Take exam to become a registered nursing assistant, EMR, and/or EMT
- EMR/EMT Club
- Work or volunteer in a medical setting (nursing homes, hospitals, etc.)
- Develop leadership skills through clubs, sports, work, service, etc.

#### OCCUPATIONS

**FAMILY/ GENERAL DOCTOR**
- Average Annual Salary: $197,196
- Outlook: Increasing Demand
- Education: Doctoral Degree

**NURSE ANESTHETISTS**
- Average Annual Salary: $170,595
- Outlook: Increasing Demand
- Education: Master’s Degree

**PHYSICIANS ASSISTANT**
- Average Annual Salary: $108,824
- Outlook: Increasing Demand
- Education: Master’s Degree

**REGISTERED NURSE**
- Average Annual Salary: $83,214
- Outlook: Increasing Demand
- Education: Associate’s Degree

**RADIOLOGIC TECHNOLOGISTS**
- Average Annual Salary: $66,570
- Outlook: Increasing Demand
- Education: Associate’s Degree

EDUCATION/HUMAN SERVICES

• Administration and Administrative Support
• Professional Support Services
• Teaching/Training

EDUCATION/HUMAN SERVICES PATHWAY

<table>
<thead>
<tr>
<th>RECOMMENDED CAREER AND TECHNICAL COURSES</th>
<th>RECOMMENDED ACTIVITIES/ CREDENTIALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>2805 – Family Dynamics (9-12)</td>
<td>Equity Leaders</td>
</tr>
<tr>
<td>2800 – Psychology of Childhood (10-12)</td>
<td>Healthy Minds</td>
</tr>
<tr>
<td>2811/2812 – Exploring Childhood A/B (11-12) (U)</td>
<td>GSA</td>
</tr>
<tr>
<td>7306 – Psych (10-12) and/or</td>
<td>Student Council</td>
</tr>
<tr>
<td>7316/7317 – AP Psych A/B (11-12) (U)</td>
<td>National Honors Society</td>
</tr>
<tr>
<td>7205 – Anthropology (10-12) and/or</td>
<td>Volunteer/Work with young people: coach a sport, church groups, childcare, etc.</td>
</tr>
<tr>
<td>7307 – Sociology (10-12) and/or</td>
<td>Develop leadership skills through clubs, sports, work, service, etc.</td>
</tr>
<tr>
<td>7300 – Contemporary Social Issues (11-12)</td>
<td></td>
</tr>
<tr>
<td>&quot;If you plan to be a content area teacher, take as many content area classes as possible&quot;</td>
<td></td>
</tr>
</tbody>
</table>

* If you plan to be a content area teacher, take as many content area classes as possible

RECOMMENDED ACTIVITIES/CREDENTIALS

- Equity Leaders
- Healthy Minds
- GSA
- Student Council
- National Honors Society
- Volunteer/Work with young people: coach a sport, church groups, childcare, etc.
- Develop leadership skills through clubs, sports, work, service, etc.

OCCUPATIONS (Twin Cities Metro Area Data from DEED)

<table>
<thead>
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<th>OCCUPATION</th>
<th>AVERAGE ANNUAL SALARY</th>
<th>OUTLOOK:</th>
<th>EDUCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLINICAL/ SCHOOL PSYCHOLOGIST</td>
<td>$84,573</td>
<td>INCREASING DEMAND</td>
<td>Master’s Degree</td>
</tr>
<tr>
<td>SOCIAL WORKER</td>
<td>$54,922</td>
<td>INCREASING DEMAND</td>
<td>Master’s Degree</td>
</tr>
<tr>
<td>MARRIAGE &amp; FAMILY THERAPISTS</td>
<td>$50,150</td>
<td>INCREASING DEMAND</td>
<td>Master’s Degree</td>
</tr>
<tr>
<td>SCHOOL TEACHER</td>
<td>$69,143</td>
<td>FLAT DEMAND</td>
<td>Bachelor’s Degree</td>
</tr>
<tr>
<td>TRAINING AND DEVELOPMENT SPECIALIST</td>
<td>$65,650</td>
<td>INCREASING DEMAND</td>
<td>Bachelor’s Degree</td>
</tr>
</tbody>
</table>

https://mn.gov/deed/data/data-tools/career-education-explorer/
LAW/GOVERNMENT
- Correction Services
- Emergency and Fire Management Services
- Law Enforcement Services
- Legal Services
- Security and Protective Services

LAW/GOVERNMENT PATHWAY

<table>
<thead>
<tr>
<th>RECOMMENDED CAREER AND TECHNICAL COURSES</th>
<th>RECOMMENDED ACTIVITIES/ CREDENTIALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>2300 – Business and Personal Law I (9-12)</td>
<td>Political Action Committee</td>
</tr>
<tr>
<td>2310 – Business and Personal Law II (9-12)</td>
<td>Rotary Interact</td>
</tr>
<tr>
<td>7206 – Political Science (10-12) (U) OR</td>
<td>Debate</td>
</tr>
<tr>
<td>7216 – CIS Political Science (11-12) (U)</td>
<td>Speech</td>
</tr>
<tr>
<td>7300 – Contemporary Social Issues (11-12)</td>
<td>Student Council</td>
</tr>
<tr>
<td>7207 – International Relations: Global Policy, Conflict, and Terrorism in the 21st Century (10-12)</td>
<td></td>
</tr>
<tr>
<td>7205 – Anthropology (10-12) and/or</td>
<td>National Honors Society</td>
</tr>
<tr>
<td>7307 – Sociology (10-12)</td>
<td>Develop leadership skills through clubs, sports, work, service, etc.</td>
</tr>
<tr>
<td>7210 – CIS Microeconomics (11-12)(U) and/or</td>
<td></td>
</tr>
<tr>
<td>7215 – CIS Macroeconomics (11-12) (U)</td>
<td></td>
</tr>
<tr>
<td>7306 – Psych (10-12) and/or</td>
<td></td>
</tr>
<tr>
<td>7316/7317 – AP Psych A/B (11-12) (U)</td>
<td></td>
</tr>
</tbody>
</table>

OCCUPATIONS (Twin Cities Metro Area Data from DEED)

<table>
<thead>
<tr>
<th>OCCUPATION</th>
<th>AVERAGE ANNUAL SALARY</th>
<th>OUTLOOK:</th>
<th>EDUCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAWYER</td>
<td>$113,215</td>
<td>INCREASING DEMAND</td>
<td>Doctoral Degree</td>
</tr>
<tr>
<td>SOCIAL/ COMMUNITY SERVICE MANAGER</td>
<td>$78,080</td>
<td>INCREASING DEMAND</td>
<td>Master’s Degree</td>
</tr>
<tr>
<td>POLICE OFFICER</td>
<td>$74,267</td>
<td>INCREASING DEMAND</td>
<td>Bachelor’s Degree</td>
</tr>
<tr>
<td>PARALEGAL</td>
<td>$56,330</td>
<td>INCREASING DEMAND</td>
<td>Associate’s Degree</td>
</tr>
</tbody>
</table>

https://mn.gov/deed/data/data-tools/career-education-explorer/
BUSINESS, MANAGEMENT AND ADMINISTRATION

• Administrative Support
• Operations Management
• Business Information Management
• Human Resources Management
• General Management

BUSINESS/MANAGEMENT/ADMINISTRATION PATHWAY

<table>
<thead>
<tr>
<th>RECOMMENDED CAREER AND TECHNICAL COURSES</th>
<th>RECOMMENDED ACTIVITIES/CREDENTIALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>2300 – Business and Personal Law I (9-12)</td>
<td>Business Essentials Certificate</td>
</tr>
<tr>
<td>2310 – Business and Personal Law II (9-12)</td>
<td>DECA</td>
</tr>
<tr>
<td>2317 – Hospitality and Tourism Mgmt (9-12)</td>
<td>Student Enterprise (starting fall 2019)</td>
</tr>
<tr>
<td>2040 – Business Information Systems (10-12)</td>
<td>Student Council</td>
</tr>
<tr>
<td>2050 – Business Computer Applications (10-12)</td>
<td>Develop leadership skills through clubs, sports, work, service, etc.</td>
</tr>
<tr>
<td>2220 – Principles of Marketing (10-12) (U)</td>
<td></td>
</tr>
<tr>
<td>2230 – College Introduction to Business (10-12) (U)</td>
<td></td>
</tr>
<tr>
<td>2240 – Human Relations in Business (10-12) (U)</td>
<td></td>
</tr>
<tr>
<td>2316 – Business Leadership (11-12)</td>
<td></td>
</tr>
<tr>
<td>7210 – CIS Micro (11-12) (U) &amp; 7215 – CIS Macro (11-12) (U)</td>
<td></td>
</tr>
<tr>
<td>7306 – Psych (10-12) and/or 7316/7317 – AP Psych A/B (11-12) (U)</td>
<td></td>
</tr>
</tbody>
</table>

BUSINESS, MANAGEMENT AND ADMINISTRATION

• Administrative Support
• Operations Management
• Business Information Management
• Human Resources Management
• General Management

OCCUPATIONS

<table>
<thead>
<tr>
<th>OCCUPATIONS</th>
<th>AVERAGE ANNUAL SALARY</th>
<th>OUTLOOK:</th>
<th>EDUCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUMAN RESOURCE MANAGERS</td>
<td>$116,212</td>
<td>DECREASING DEMAND</td>
<td>Bachelor’s Degree</td>
</tr>
<tr>
<td>CONSTRUCTION MANAGER</td>
<td>$92,898</td>
<td>INCREASING DEMAND</td>
<td>Bachelor’s Degree</td>
</tr>
<tr>
<td>OPERATIONS RESEARCH ANALYSTS</td>
<td>$85,917</td>
<td>INCREASING DEMAND</td>
<td>Bachelor’s Degree</td>
</tr>
<tr>
<td>MANAGEMENT ANALYSTS</td>
<td>$76,914</td>
<td>INCREASING DEMAND</td>
<td>Bachelor’s Degree</td>
</tr>
</tbody>
</table>

https://mn.gov/deed/data/data-tools/career-education-explorer/
FINANCE/MARKETING

- Banking Services
- Business Finance
- Securities and Investment
- Accounting
- Insurance
- Merchandising
- Marketing Management
- Marketing Communications
- Marketing Research
- Professional Sales

FINANCE/MARKETING PATHWAY

RECOMMENDED CAREER AND TECHNICAL COURSES

<table>
<thead>
<tr>
<th>FINANCE</th>
<th>MARKETING</th>
</tr>
</thead>
<tbody>
<tr>
<td>2120 – Computerized Accounting/Accounting III (10-12)</td>
<td>2022 – Web Design &amp; Social Media Marketing (9-12)</td>
</tr>
<tr>
<td>2100 – Accounting I (9-12)</td>
<td>2220 – Principles of Marketing (10-12)</td>
</tr>
<tr>
<td>2110 – Accounting II (9-12)</td>
<td>2317 – Hospitality and Tourism Mgmt (9-12)</td>
</tr>
<tr>
<td>2230 – College Introduction to Business (10-12)</td>
<td>2230 – College Introduction to Business (10-12)</td>
</tr>
<tr>
<td>2040 – Business Information Systems (10-12)</td>
<td>2240 – Human Relations in Business (10-12)</td>
</tr>
<tr>
<td>2050 – Business Computer Applications (10-12)</td>
<td>2100 – Accounting I (9-12)</td>
</tr>
<tr>
<td>2027 – Personal Money Management (11-12) or</td>
<td>2040 – Business Information Systems (10-12)</td>
</tr>
<tr>
<td>2706 – Financial Skills for Life (11-12)</td>
<td>2050 – Business Computer Applications (10-12)</td>
</tr>
<tr>
<td>7210 – CIS Micro (11-12)</td>
<td>2505 – Fashion Marketing and Design (10-12)</td>
</tr>
<tr>
<td>and/or 7215 – CIS Macro (11-12)</td>
<td>1610 – Digital Imaging (9-12)</td>
</tr>
</tbody>
</table>

RECOMMENDED ACTIVITIES/ CREDENTIALS

- Business Essentials Certificate
- Investment Club
- DECA
- Student Enterprise (starting fall 2019)

Develop leadership skills through clubs, sports, work, service, etc.

https://mn.gov/deed/data/data-tools/career-education-explorer/
WHAT IS YOUR CAREER PATHWAY OF INTEREST?

WHAT IS YOUR CAREER CLUSTER OF INTEREST?

WHAT IS A CAREER YOU WOULD LIKE TO LEARN MORE ABOUT?

WHAT PROGRAM OF STUDY AND/OR TRAINING IS REQUIRED?

WHAT IS THE MEDIAN SALARY?

DOES THIS CAREER AFFORD YOU THE LIFESTYLE YOU DESIRE?

CAREER EXPLORATION NOTES:

FOR GUIDANCE:
Use MCIS | Talk to Your Ranger Connect Teacher | Talk to Your Dean | Talk to the College & Career Coordinator