



Maximizing Student International Experience Options Under Tight Resource Constraints

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Union College





General Education Requirements

- Modern Languages
- Cultural Diversity
- International Experiences





Options Requiring International Travel

- Conventional **Union** Term Abroad
- International Engineering Exchanges
- Mini Term Abroad (3 weeks)
- International Virtual Term Aboard
- International Internships and Co-ops





Engineering Students' International Experiences

Type of Experience	2004	Five Year Average
Regular Term Abroad	13%	19.7%
Exchange	39%	31.1%
Mini-term	28%	31.5%
IVDS	2%	4.2%
International Term in Industry		1.2%
Other (Not involving international travel)	18%	12.3%



Language Preparation

- 33.6% Four or more years
 - 23.0% Spanish
 - 6.2% French
 - 2.2% German
 - 2.2% Other
- 14.6% None
- 51.8% One to three years

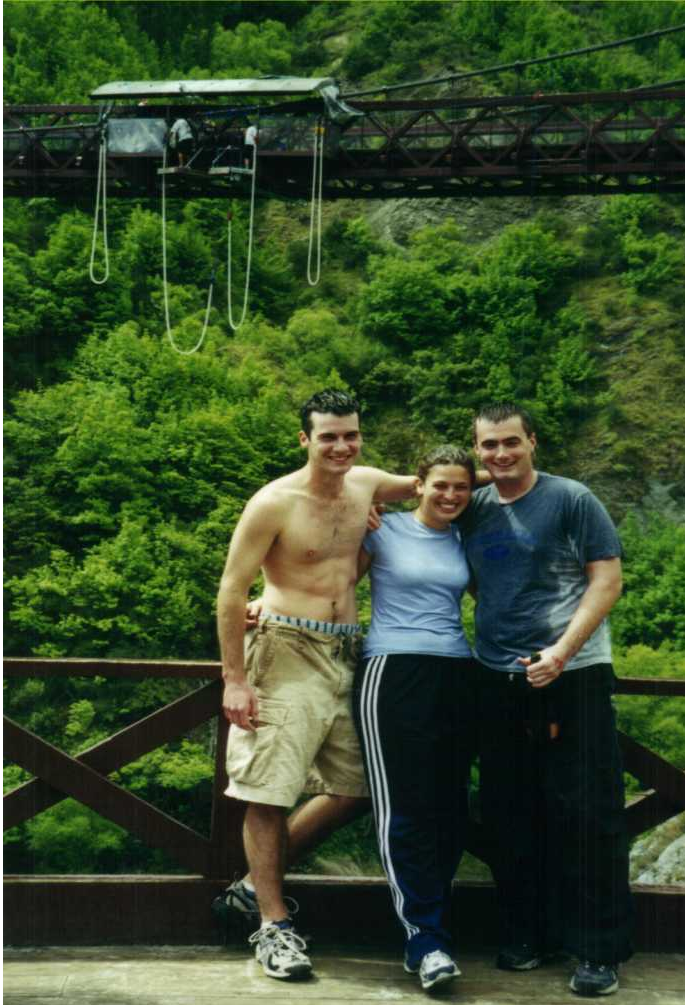


Relative Costs for Programs

Type of Experience	Duration (weeks)	Cost/Student	Cost/Student /Week
Regular Term Abroad	10	\$8679	\$868
Mini-term	3	\$3750	\$1250
Exchanges	10	\$1840	\$184
IVDS Internet Projects	1	\$1440	\$1440
International Internship in Industry	10	\$7000	\$700



Net Benefits





Regular Term Abroad



Regular Term Abroad	Weighting
Benefits <ul style="list-style-type: none">• Length of stay• Language proficiency• Cultural immersion• Support group	1.0 3.0 0.5 0.2
Disbenefits <ul style="list-style-type: none">• No engineering courses	-0.5
Net Benefits (with language)	4.2
Net Benefits (without language)	1.2



Mini-term



Mini-term

Benefits

- Length of stay
- Doesn't interfere with regular classes
- Interdisciplinary
- Interaction with international engineers

Weighting

0.3

0.3

0.4

0.2

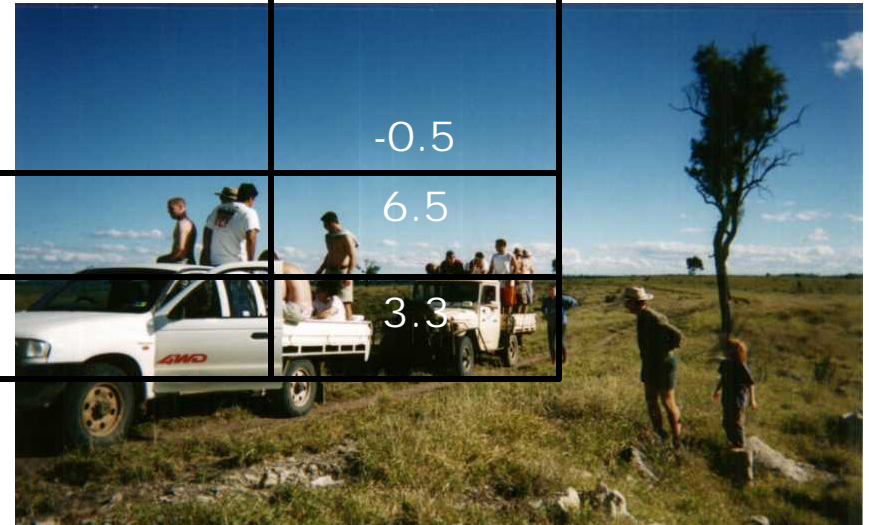
Net Benefits

1.2



Engineering Exchanges

Engineering Exchanges	Weighting
Benefits	
• Length of stay	1.0
• Engineering classes	0.5
• Interaction with international engineers	1.0
• Cultural immersion	1.0
• Language proficiency	3.2
• International engineers at Union	0.3
Disbenefits	
• Lack of support group	-0.5
Net Benefits (with language)	6.5
Net Benefits (without language)	3.3





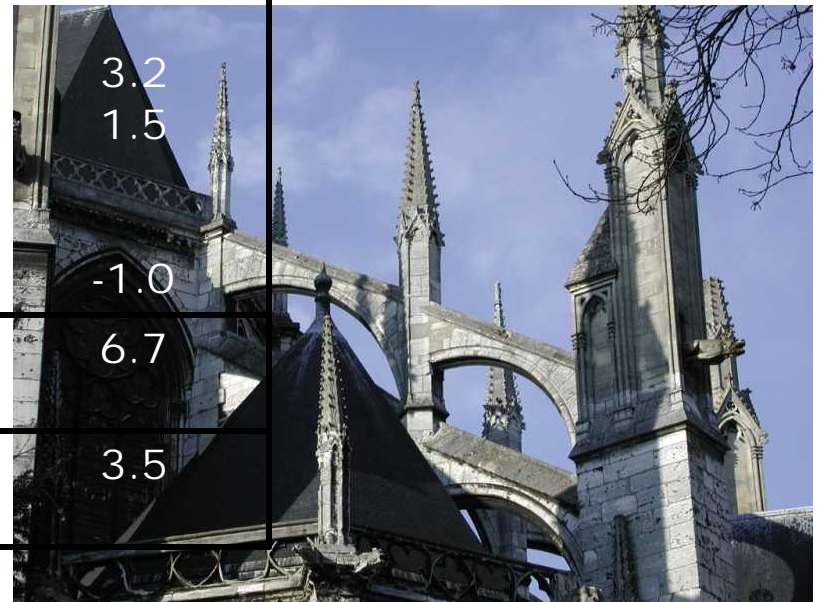
IVDS

IVDS	Weighting
Benefits <ul style="list-style-type: none">• Length of stay• Interaction with international engineers• Design oriented	0.1 0.5 0.5
Disbenefits <ul style="list-style-type: none">• Technical difficulties	-0.2
Net Benefits	0.9



International Internship in Industry

International Internship in Industry	Weighting
Benefits	
• Length of stay	1.0
• Interaction with international engineers	2.0
• Language proficiency	3.2
• Cultural immersion	1.5
Disbenefits	
• No academic credit	-1.0
Net Benefits (with language)	6.7
Net Benefits (without language)	3.5





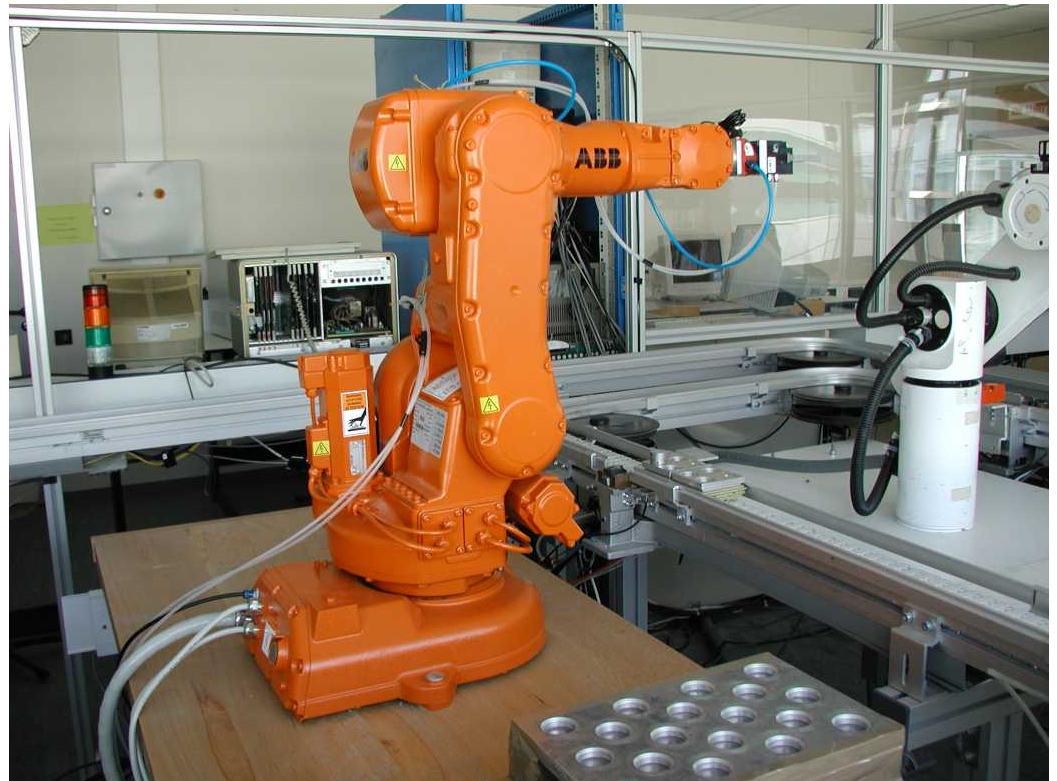
Ranking of Programs

Program	Cost/Student	Cost/Student/ Week	Net Benefit (w language)	Net Benefit (w/o language)
Regular Term Abroad	5	3	4.2	1.2
Mini-term	3	4	1.2	1.2
Engineering Exchange	2	1	6.5	3.3
IVDS	1	5	0.9	0.9
International Internship in Industry	4	2	6.7	3.5



Future Developments

- International Internships in Industry
- Exchange Programs





Issues Favoring Exchanges

- Strong Engineering Component
- Cultural Immersion
- International Students to Union
- Minimize costs





Types of Exchanges

- 
- One term or semester/whole academic year
 - Tuition, room, & board/tuition only
 - Exchange + industrial internship
 - Shorter term exchanges
 - IVDS
 - Summer programs



The Road to Developing Exchanges



- Compatible programs
- Formal agreement
- Selling experience to students
- Selecting students
- Support Services



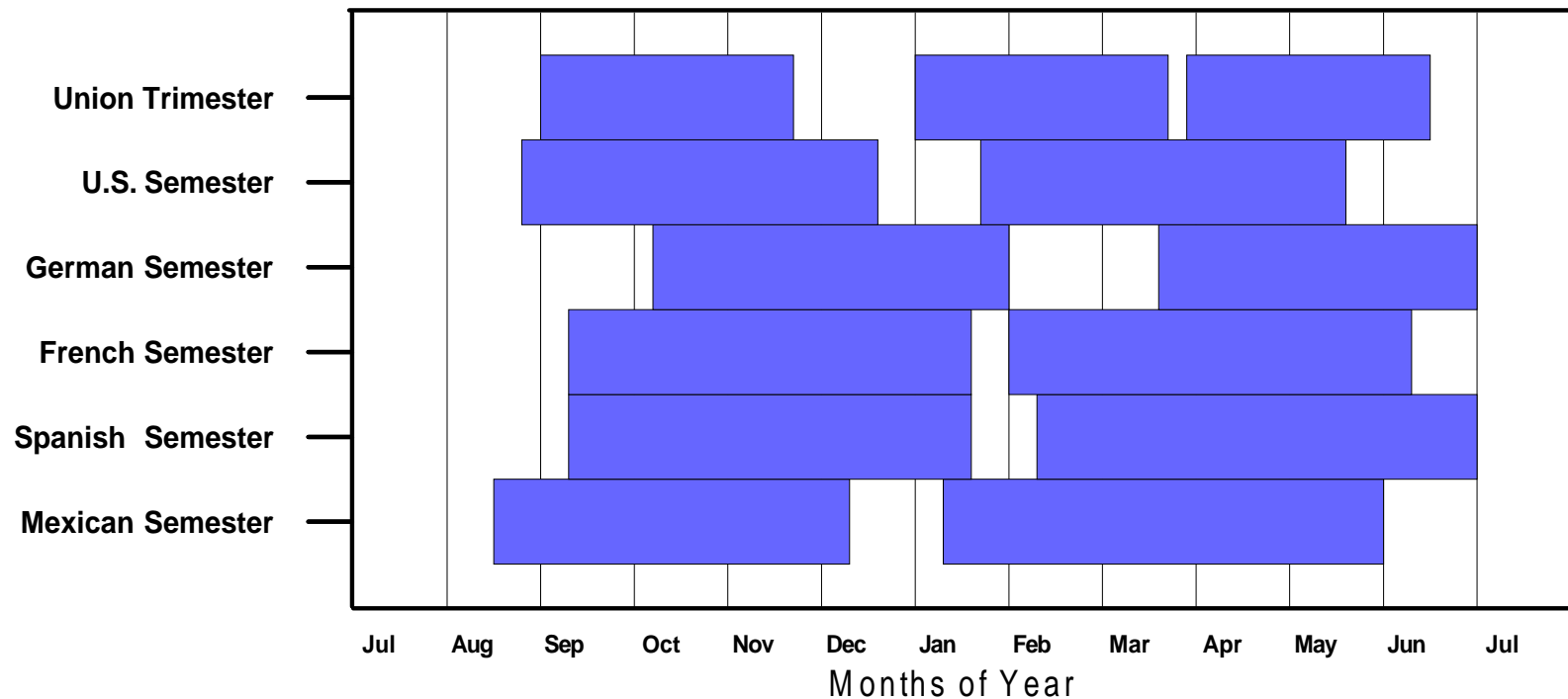
Obstacles to be Overcome

- Language Barriers
- Schedule Differences





Comparative Academic Calendars





Obstacles to be Overcome

- Language Barriers
- Schedule Differences
- Credit Evaluation
- Maintaining Balance
- Visas
- Currency Exchange Rates

