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Better Foresters

Stellenbosch & Forest Industry

Department of Forest and Wood Science

Cori Ham





Department of Forest and Wood Science

Faculty of AgriSciences



 Universities more involved in society – scholarship of engagement (Boyer, 1996)



- Teaching, research and community engagement
- Stellenbosch Univ. community interaction
 - Community also Forestry Industry
- Department of Forest and Wood Science (DFWS)
 - Enrich industry with scientific knowledge
 - Graduates forest managers and scientists



- Medieval Universities
 - Practical "mechanical" disciplines such as agriculture, healing and construction not welcome



- Modern Universities
 - Business of offering broad and critical education student engage with "real" world
 - Prepare student for suitable career
 - Knowledge Personal skills
 - Graduate attributes engaged citizens, dynamic professionals and well-rounded individuals



- Focus on enhancement of:
 - Interdisciplinary thinking
 - Communication
 - Leadership and teamwork skills
 - Technical knowledge
- Help to clarify career expectations, set professional identity, create employment opportunities, create positive work values
- Important for forestry students managers early in career





- First professional foresters in SA 1881
 - Trained at French School of Forestry Nancy
- Tokai School of Forestry since 1906
 - In 1932 Saasveld School of Forestry
 - Nelson Mandela Metropolitan University (2006)
 - Focus on training foresters with practical work experience
 - 9 month Work Place Learning





- BSc Forestry degree at Stellenbosch 1931
 - Strong science focus forestry and wood science
 - Train forest managers and scientists
 - Work integrated learning integrated since inception
 - 1934 8 weeks practical work, management plan, collect herbarium specimens of fungi, insect and trees





- Annual advisory board meetings
 - Show, tell and ask
- Guest lectures from industry
- Lecturers engaged in industry

 research, consultation
- Student engagement with industry – SFSA, IFSA
- Academic knowledge, technical application focussed on an industry
- Work integrated learning





Year	Module	Activities
1 - 4	All modules	Practical and tutorials, case studies, field visits in the surrounding forest areas and guest lectures by industry experts
1	Forest Science 171 (Introduction to forestry)	"One week of practical work in September is to be completed satisfactorily."
3	Forest Science 354 (Forest growth and yield science)	"One week of practical work in June to be completed satisfactorily."
3	Forest Science 364 (Timber harvesting)	"One week of practical work (power-saw course) in September of the second year to be completed satisfactorily."
4	Forest Science 442 (Forestry practical work)	"Three weeks of practical forestry work during the four years of study. Three-week study tour during the winter recess of the fourth year."
4	*Forest Science 468 (Management plan)	"A study of the total industry or of a chosen or allocated management unit in the industry. A visit of approximately three weeks to the management unit is essential."
4	*Wood Science 468 (Research project)	"Independent execution of a theoretical and/or practical investigation in any wood science related field, and the submission of a comprehensive research report."

S Industry > Stellenbosch

- Bursaries
 - Company as well as SETA
- Sponsorships of events
- Recruitment at Stellenbosch
- Assist with practical work
- Research requests
- Willingness to engage
- Induction programmes





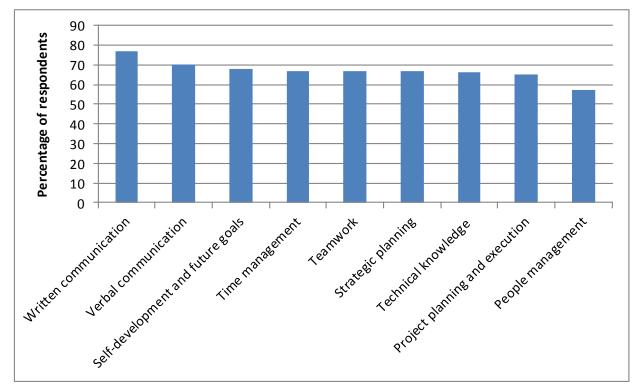
- Positive
 - Low number of students
 - Quality of students
 - Career in forestry
 - International networks
 - Further studies
 - Other careers



- Negative
 - Quality of scholars
 - Practical work placement
 - Drivers licenses
 - Accommodation
 - SHE vetting
 - Drop-out rate
 - Career development



 67% agreed that BSc Forestry prepared them well for work





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- Forestry business environment becoming increasingly complex
 - Technical skills often second place to qualities such as being able to work well with other foresters and with public stakeholders (Jacobson *et al.* 2008)
- Industry & Education partnership
 - Focus on creating a graduate who can adapt to the complexities of the forestry environment

" Do you allow innovation and critical thinking"

