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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





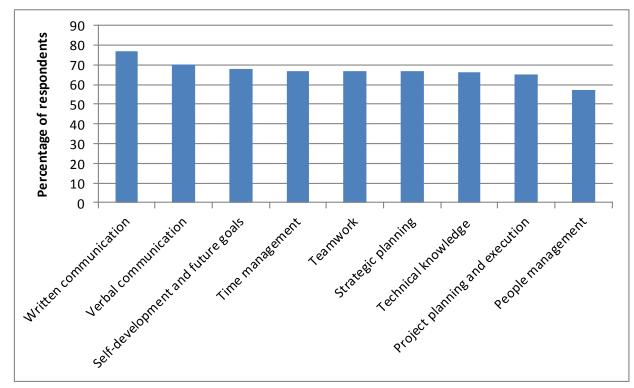
- Positive
  - Low number of students
  - Quality of students
  - Career in forestry
  - International networks
  - Further studies
  - Other careers



- 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"

