

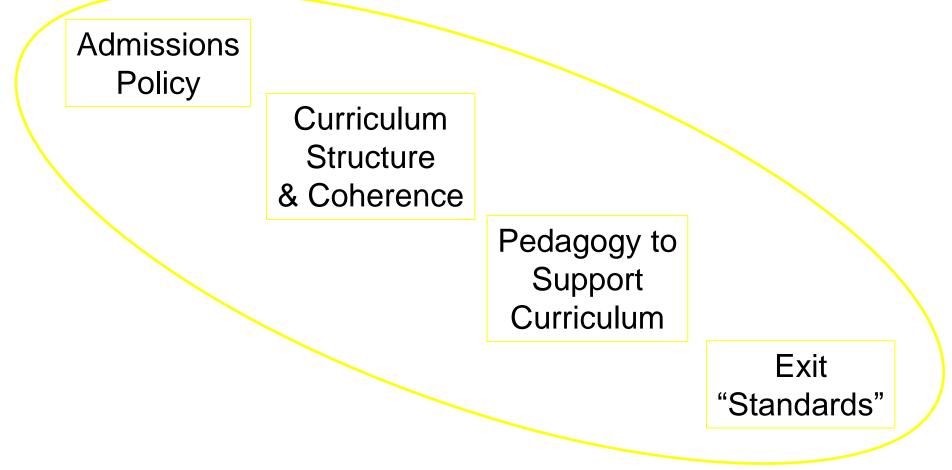
Overcoming Socio-Cultural Challenges to Students' Success

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Some common student issues

- Learn to recognise and respond to eating and general health; IT savviness, adjustment; community alienation; etc
- 1st year students may not know how to budget
- Be aware of learnt prejudices or bad social behaviour from home, community, etc and respond through advocacy, IF, etc
- "Unlearning" bad study habits is difficult be sensitive

University issues: the academic planning continuum



Consider the competency approach to curriculum development

Course Code	Course Name	Problem Solving			Fundam- ental & Specialist Knowledge			Design and Synthesis			Investiga- tions, Experiments & Data Analysis			Eng. Methods, Skills, Tools &IT			Prof. & General Commu- nication			Impact on Society & Environ- ment			Team & Multi- disciplinary Working			Lifelong Learning			Professional Ethics & Practice		
		В	Ι	Е	В	Ι	Е	В	Ι	Е	В	Ι	Е	В	Ι	Е	В	Ι	Е	В	Ι	Е	В	Ι	Е	В	Ι	E	В	Ι	Е
CHEM180	Chemistry I	\checkmark			\checkmark						\checkmark															\checkmark					
CIVN101	Civil Eng & Development	\checkmark															\checkmark			\checkmark			\checkmark			\checkmark			\checkmark		
CIVN102	Engineering Computing													\checkmark			\checkmark									\checkmark					
CIVN104	Engineering Skills	\checkmark						\checkmark						\checkmark			\checkmark			\checkmark			\checkmark			\checkmark			\checkmark		1
MATH180	Mathematics I	\checkmark			\checkmark																										
PHYS180	Physics I	\checkmark			\checkmark						\checkmark			\checkmark												\checkmark					
PHYS181	Mechanics	\checkmark			\checkmark						\checkmark			\checkmark												\checkmark					
APPM280	Applied Mathematics IIA		\checkmark			\checkmark						\checkmark			\checkmark																
CIVN204	Earth Materials & Process					\checkmark			\checkmark						\checkmark			\checkmark					\checkmark			\checkmark					
CIVN208	Intro to Env. Engineering	\checkmark			\checkmark										\checkmark			\checkmark			\checkmark									\checkmark	
CIVN219	Materials & Structures		\checkmark			\checkmark		\checkmark			\checkmark			\checkmark			\checkmark			\checkmark			\checkmark			\checkmark			\checkmark		
CIVN222	Eng. Planning & Design		\checkmark					\checkmark			\checkmark				\checkmark			\checkmark					\checkmark						\checkmark		
CIVN223	Numrcal Methods & Stats	\checkmark				\checkmark		\checkmark			\checkmark				\checkmark											\checkmark					
MATH280	Mathematics II		\checkmark				\checkmark																								
MINN250	Surveying for Engineers		\checkmark				\checkmark					\checkmark				\checkmark		\checkmark						\checkmark							
CIVN303	Structural Design		\checkmark				\checkmark			\checkmark	\checkmark					\checkmark		\checkmark						\checkmark				\checkmark			
CIVN304	Construction Materials I		\checkmark			\checkmark						\checkmark			\checkmark			\checkmark						\checkmark			\checkmark				
CIVN305	Hydraulic Engineering I		\checkmark			\checkmark						\checkmark			\checkmark			\checkmark									\checkmark				
CIVN308	Structural Engineering I		\checkmark			\checkmark			\checkmark			\checkmark			\checkmark																
CIVN318	Geotechnical Eng. I		\checkmark			\checkmark			\checkmark			\checkmark			\checkmark			\checkmark			\checkmark			\checkmark			\checkmark			\checkmark	
CIVN327	Infrastructure Mngmnt		\checkmark												\checkmark			\checkmark			\checkmark			\checkmark			\checkmark			\checkmark	
CIVN328	Infrastructure Planning		\checkmark						\checkmark						\checkmark			\checkmark			\checkmark			\checkmark			\checkmark			\checkmark	
CIVN408	Construction Materials II			\checkmark			\checkmark			\checkmark			\checkmark			\checkmark			\checkmark						\checkmark			\checkmark			
CIVN409	Hydraulic Engineering II			\checkmark			\checkmark			\checkmark		\checkmark		l	\checkmark			\checkmark			\checkmark			\checkmark		l	\checkmark			\checkmark	
CIVN412	Structural Engineering II			\checkmark			\checkmark		\checkmark			\checkmark				\checkmark												\checkmark			
CIVN414	Civil Eng Design III			\checkmark			\checkmark			\checkmark			\checkmark			\checkmark			\checkmark			\checkmark			\checkmark			\checkmark			\checkmark
CIVN418	Geotechnical Eng. II			\checkmark			\checkmark			\checkmark			\checkmark			\checkmark			\checkmark						\checkmark			\checkmark			\checkmark
CIVN420	Investigational Project			\checkmark			\checkmark			\checkmark			\checkmark			\checkmark			\checkmark									\checkmark			\checkmark
CIVN421	Integrtd Resource Mngmnt			\checkmark			\checkmark			\checkmark		\checkmark			\checkmark				\checkmark			\checkmark		\checkmark				\checkmark			\checkmark

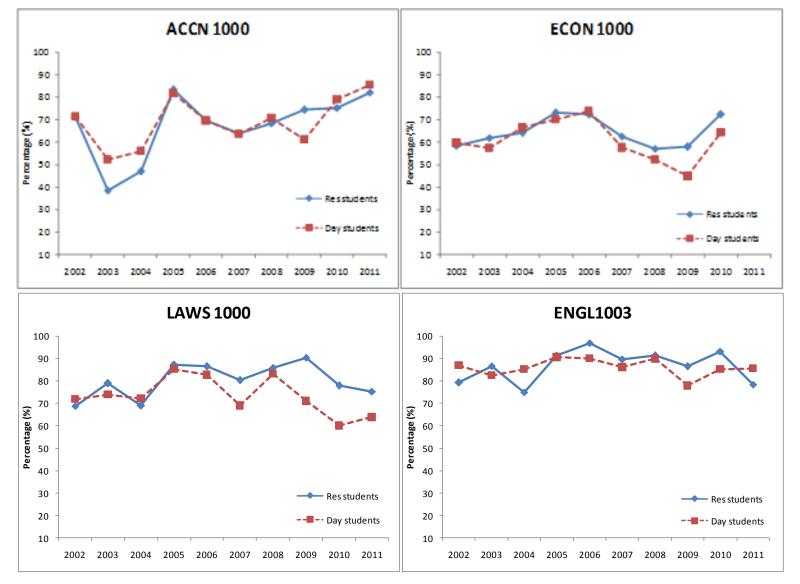
What is the role of language and competence in English?

Consider the possibility that at least one of the reasons for your students not passing is that you do not teach them properly – then deal with it

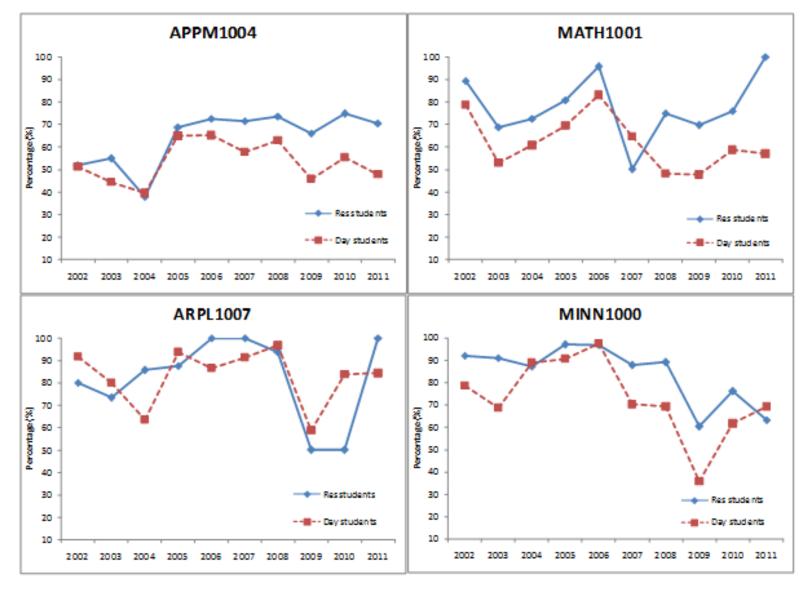
"Second Curriculum" issues

- This is the learning that takes place at university but outside of formal course-based learning seminars, debates, cultural events, etc.
- Influenced by the "institutional culture" of the university
- Can be directed to enhance learning

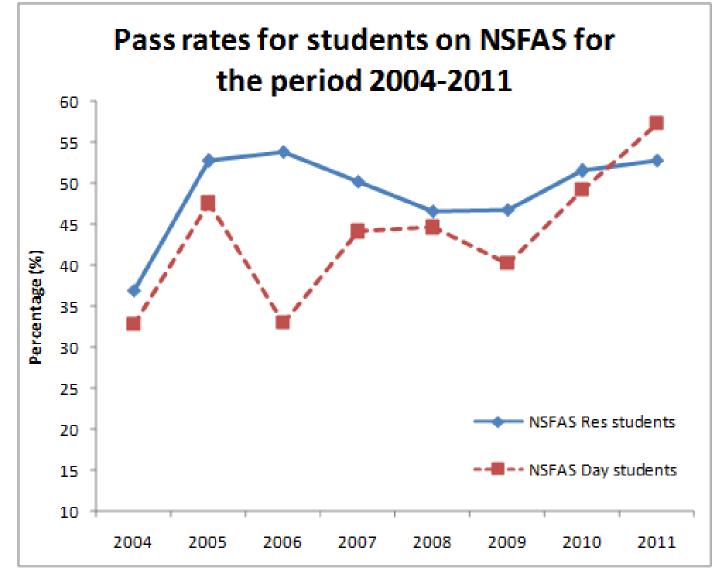
Wits Residence development project: Performance by course (Av course pass rate)



Wits Residence development project: Performance by course (Av course pass rate)



Wits Residence development project: NSFAS Students



General performance across 9 Wits residences

