ILLINOIS INSTITUTE OF TECHNOLOGY

Transforming Lives.Inventing the Future.

Forcasting

Hannah Kolb

What is Forecasting?

Looking at past demand to predict future demand

Why is it Important to the Success of the IPRO Program?

Being able to forecast the demand of IPRO course will help the IPRO management plan the appropriate number and types of classes. This will help provide better courses and a better IPRO experiance for students.

Results

Created a forecasting program and manual for the program to be utilized in the future

Forecasting model is currently being used for the program planing for the Fall 2008 semester.

Next Steps

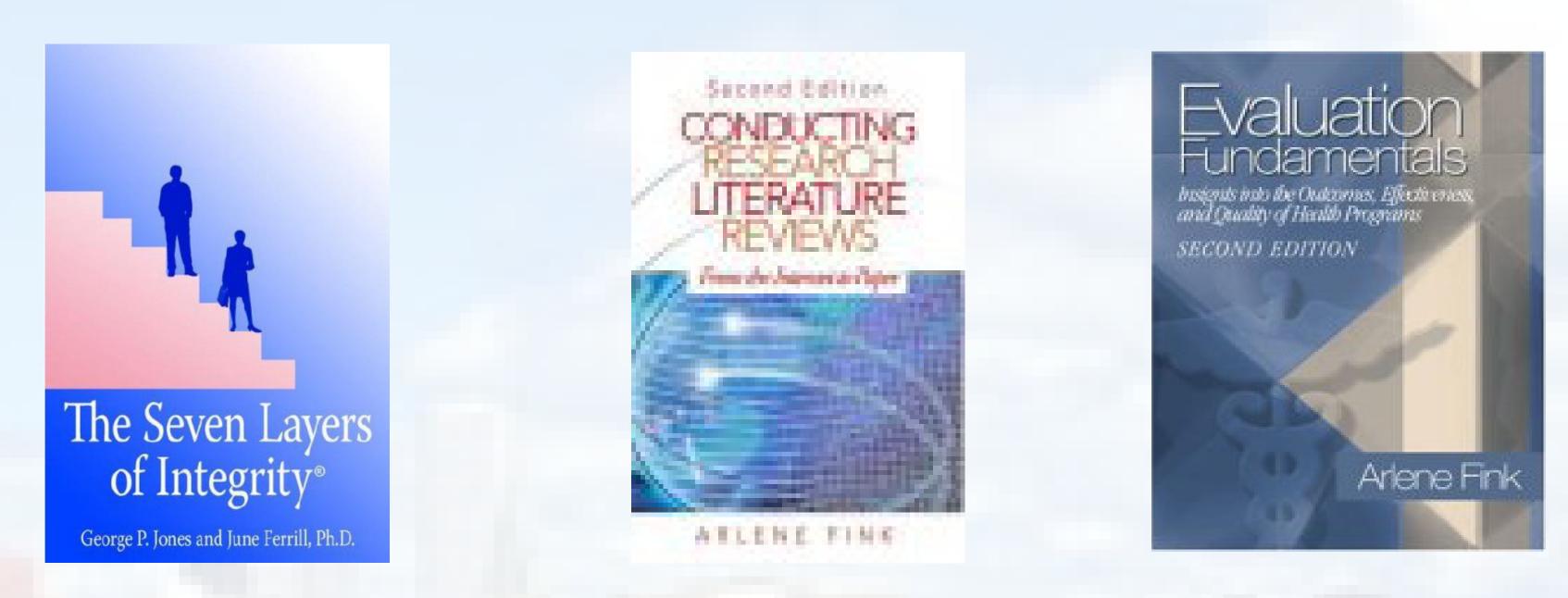
The program will be utilized in future semesters to continue to forecast enrollment

Example of Program Output

S0	F08				S09				S09					F0	9	S10		S10		
UG1 UG2	0 1	0 1	0 2	0 9	0 15	0 20	0 10	0 16	0 22	0 1	0 1	0 2	0 9	0 15	0 21	0 10	0 17	0 23		
UG3	5	6	7	76	87				111		5	6	7	77	88	100)	86	99	100
UG4	25	25 30		34 166		5 196		5 226		5 202		238		275		27	32	36 175		
206 238		212		251		290														
UG5 117	10	11	12	67	72	78	92	10()	107	7	11	12	13	73	79	84	100)	109
G1 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
G2 0	0	0	0	3	7	0	1	4	0	0	0	0	3	8	0	1	4			
OTHE	R	0	0	0	12	16	21	7	10	13	0	0	0	13	18	23	8	11	14	
TOTAL 44			49 53		361		398		335		425 4		467	467 511			46	51	56	378
418 457		442		489		537														
ARCH	[5	6	7	56	65	75	56	66	75	6	7	8	60	71	82	61	71	82	
ENG	G 24 26		28	3 171		187		203		224		245		266		25	27	29 177		7
194	94 211		232		254		276													
BUS/MAN		1	1	2	23	37	51	22	36	50	1	1	2	26	41	56	25	40	54	
CSL/PYSH		8	10	13	96	127	7	158	3	102	2	130	5	169)	8	11	14	99	
132 166		106		141		177														
TOTAL 44		49	53	360	366 40		5 443		434		480) 526		5	46		56	383	
424	424 466		454	454 503		553														

IPRO 301: Researching, Designing, and Improving the IPRO Program

Overarching Principle: To conduct a multidisciplinary research program to improve the caliber of collegiate student learning.



Improving Learning Objectives Testing and Education

Carolyn Wood

What are Learning Objectives?

Learning objectives are the basic general criteria every student is expected to meet after finishing an IPRO course. Existing objectives are teamwork, communications, project management, and ethical awareness.

Goals:

- Define new learning objectives, design and innovation, pertaining to technical abilities
- Modify existing objectives test to reflect new LOs
- Shorten and condense test to increase student and faculty acceptance

Results:

Students showed good comprehension of prototyping, but not brainstorming. Industrial common misconceptions were also common among students.

Test was condensed from 55 to 35 questions.

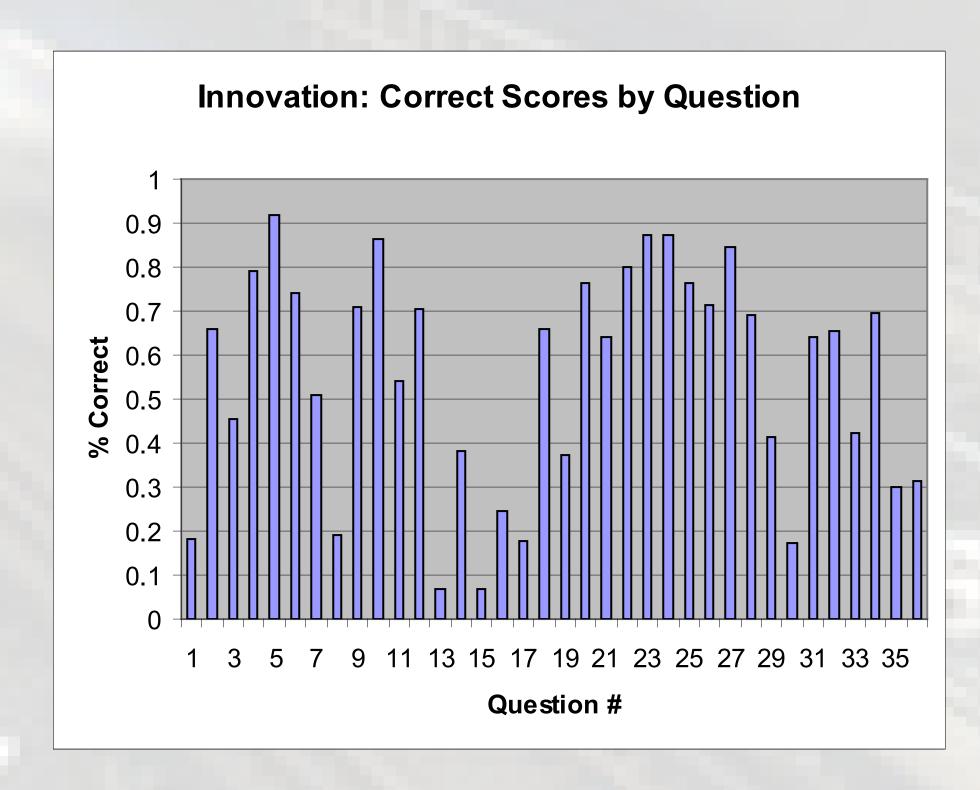
- Teamwork (10)
- Communications (10)
- Project Management (15)

Initial reactions to the new test are dramatic and positive! Former dissenters are now advocates.

Next Steps:

- Refine new version of the LO test and pilot in the summer
- Condense and develop study guide
- Gain more faculty and student acceptance
- Develop an intervention to increase student attainment of "research and design" or brainstorming objectives

Interrater Reliability and Interrater Agreement Heling Shi

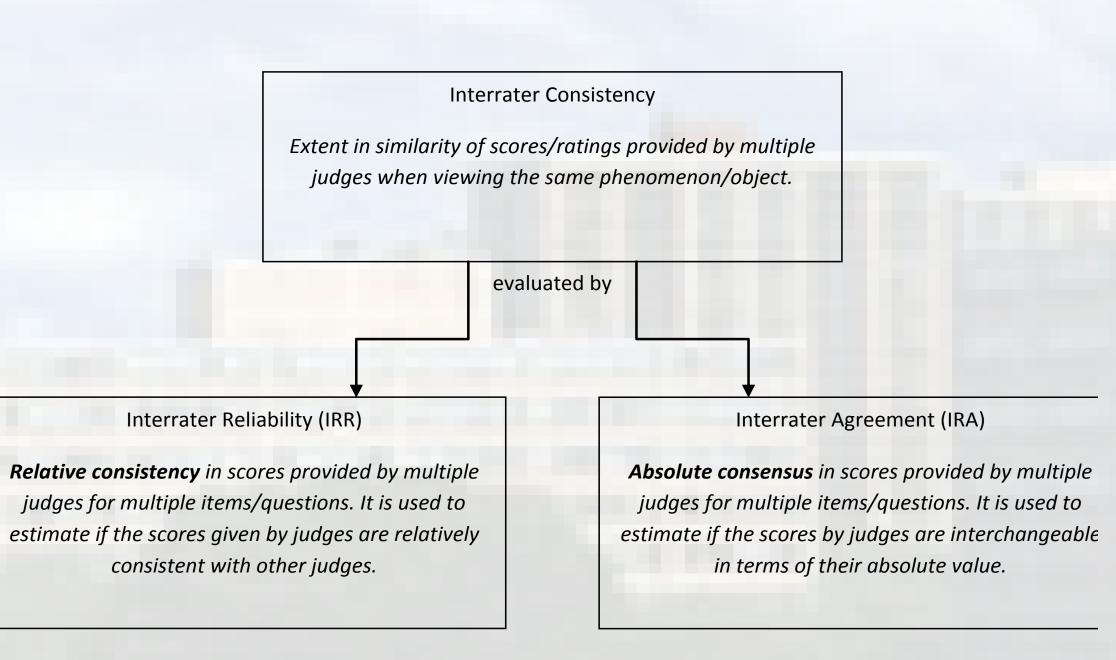


A system with low or unstable IRR or IRA would considerably undermine the validity of its program outcomes thus suggest inconsistency in the scores and raise question of the fairness of the scoring system. Therefore, it is important for the IPRO program to have reasonable IRR and/or IRA so all teams can be judged fairly on IPRO Day.

Results: IRA analysis of exhibit and presentation judging for Spring and Fall 07 semesters

Accomplishments: - Presented poster at Chicago Area Undergraduate Research Symposium in April -Work-in-Progress paper accepted by Frontiers of Education and will be submitted a final paper in May.

What is interrater consistency?



What is it important?