

# PA 552: Designing Applied Research

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Managing the Research  
Project

# Goals of Conducting Research

- Improve Research Skills
- Advance Knowledge (New)
- Enhance Evidence- Based Decision Making
- Increase *Action* Experiences (Learning)
- Improve Academic Qualifications

# Requirements of Conducting Research

- Meeting Deadlines
- Observing Format Guidelines
- Observing Word Limits
- Following Ethical Research Protocols
- Making Original Contribution
- Managing the Research Process

# Why Manage Research Projects?

- Research is a Complex Task
  - Has little prescribed structure
- Everyone has their Own Research Project
  - Manage to Meet Goals
  - Manage to Fulfil Requirements
- Develop a Plan
  - Helps to estimate and allocate time
  - Once don't need to remember
  - Time management
  - Contributes to thinking through the research process

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# **PLANNING**

# Method of Rationales

<b>INPUTS</b>	<b>ACTIVITIES</b>	<b>OUTPUTS</b>

# Plan Activities First

- Start with Activities.....
  - “Verb” statements.
  - Actions that must occur

# Example: Activities

<b>INPUTS</b>	<b><i>ACTIVITIES</i></b>	<b>OUTPUTS</b>
	Find office location Rent office location Contact QWEST for phone	
	Draft add for receptionist Place add for receptionist Interview applicants Hire receptionist	
	Draft add for counselors Place add for counselors Interview applicants Hire counselors	
	Design orientation session Schedule orientation Hold orientation	
	Price vans Buy a van	



# Plan Outputs Second

- “Noun” statements:
  - person, place, or thing
  - tangible
- Occurs due to activity - linked
- Product achieved
- Should be quantifiable

# Outputs

<b>INPUTS</b>	<b>ACTIVITIES</b>	<b><i>OUTPUTS</i></b>
	Find office location Rent office location Contact QWEST for phone	1 office location (address and phone number)
	Draft add for receptionist Place add for receptionist Interview applicants Hire receptionist	1 receptionist (1 job description w/ competencies, 10 applicants, 5 interviews)
	Draft add for counselors Place add for counselors Interview applicants Hire counselors	6 counselors (1 job description w/ competencies, 50 applicants, 24 interviews)
	Design orientation session Schedule orientation Hold/evaluate orientation	1 staff orientation (1 outline of activities, 1 list staff data, 7 evaluations)
	Price vans Buy a van	1 VAN

# Plan Inputs Last

- “Noun” statements:
  - person, place, or thing
  - tangible, but often “financial”
- Used in Activity
- Should be quantifiable

# Inputs

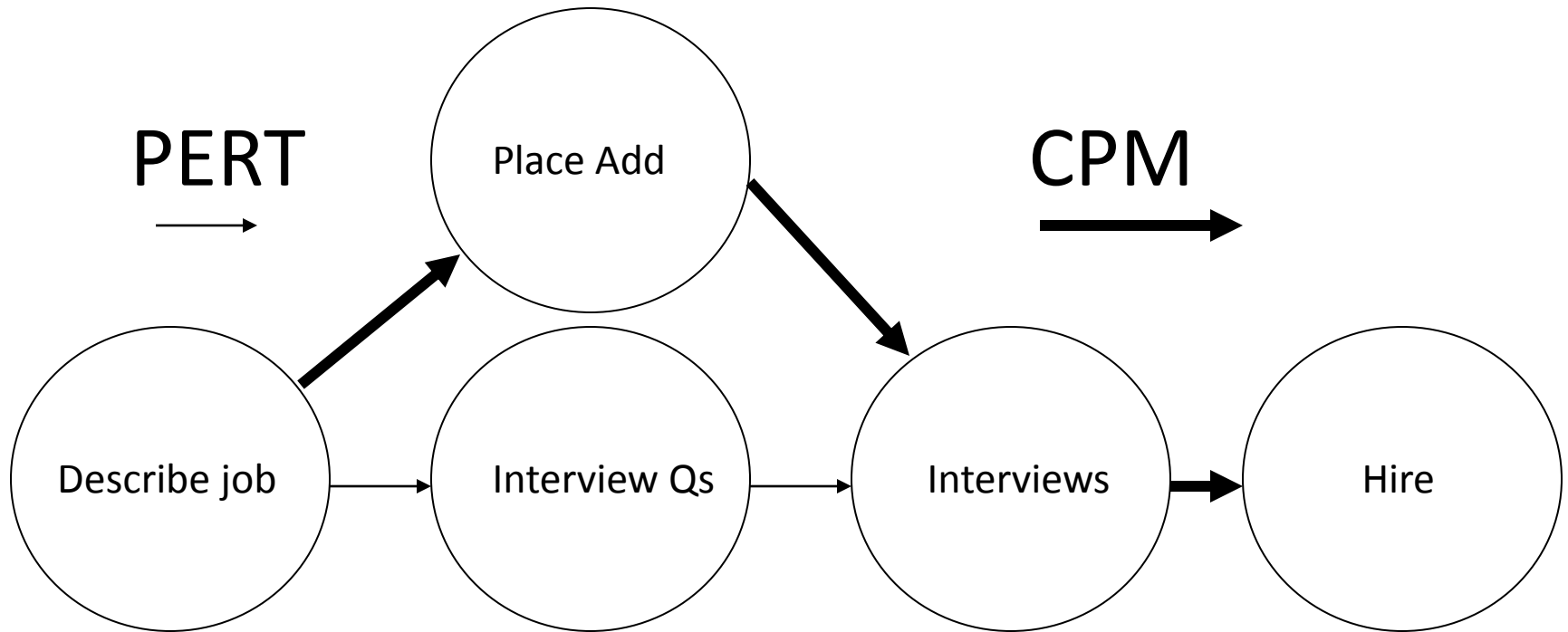
<b><i>INPUTS</i></b>	<b>ACTIVITIES</b>	<b>OUTPUTS</b>
1 real estate broker 1 city map 1 phone	Find office location Rent office location Contact QWEST for phone	1 office location (address and phone number)
1 word processor 1 sample job description 1 check for add 1 employment contract	Draft add for receptionist Place add for receptionist Interview applicants Hire receptionist	1 receptionist (1 job description w/ competencies, 10 applicants, 5 interviews)
1 word processor 1 sample job description 1 check for add 6 employment contracts	Draft add for counselors Place add for counselors Interview applicants Hire counselors	6 counselors (1 job description w/ competencies, 50 applicants, 24 interviews)
1 icebreaker; 8 lunches 1 calendar 1 participant evaluation	Design orientation session Schedule orientation Hold/evaluate orientation	1 staff orientation (1 outline of activities, 1 list staff data, 7 evaluations)
1 Sunday paper 1 check	Price vans Buy a van	1 VAN

# Operationalizing Method of Rationales

<b>INPUTS</b>	<b>ACTIVITIES</b>	<b>OUTPUTS</b>
<u>Creates Budget</u> 1 office x 12 x \$?/mos. 1 receptionist x \$? 6 counselors x \$?	<u>Creates Schedule</u> 1. Open account 2. Buy map 3. Buy agenda	<u>Production Obj.</u> 1 1600 sq.ft. office 1 JC staff 6 BA Psychology staff

# Scheduling

Hiring



PERT - Project Evaluation and Review Technique

CPM – Critical Path Method

# Using GANTT charts

- Named after Henry Gantt (1861–1919)
- Visual representation of tasks/basic
  - Shows dependence
  - Shows parallel activities and overlaps
  - Shows milestones
  - Builds in constraints
  - Other project management features can be added
    - Costs
    - Resource conflict









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**WORKING**

# UNM Research Resources

- UNM Libraries
- UNM Computer Laboratories
- UNM Graduate Student and Professional Association
- UNM Graduate Student Funding Initiative
- UNM Certificate Programs
  1. Grant-writing and Proposal Development
  2. Principal Investigator (PI) Eligibility
  3. Responsible Conduct of Research (RCR)
  4. Research Compliance

<http://research.unm.edu/graduatefunding/>
- UNM Workshops
  - Thesis Writing Boot Camps

# Getting Supervision

- Expectation Setting & Negotiation
- Approvals and Input
  - Everything?
  - Little?
  - Editing?
- Drafts
  - Partial?
  - Whole?
- Feedback
  - Written
  - Verbal
  - Mark up
  - Print or Electronic
  - Regular or Occasional Meetings?

# Keeping a Research Journal

- Journal is Useful
  - Research Activities
  - Ideas
  - Speculations
  - Interesting problems and possible solutions
  - References to look up
  - Notes on papers and articles and books
  - Interesting quotes
- Read back through it periodically
- Random thoughts come together form a pattern
  - Topic
  - Questions

# Managing the Workload

- Matrix Transformation Charts (MOR)
- Gantt Chart
  - Map Out from Start to Finish
  - Discipline Needed to Follow
  - Not most Flexible Instrument
- Network Charts
  - PERT
  - CPM

# Managing the Reading

- Before reading a paper, make sure it's worth it
  - Scan the title
  - Scan the abstract
  - If interested glance at introduction and conclusions
- If it seems worthwhile and relevant, read it
- Taking Notes
  - Can review them later rather than whole paper
  - If not, still helps to focus attention and summarize



# Time Management

- Distinguish Urgent from Important
- Block out I-Time
- Make a *daily* to-do List
- Set Priorities A, B, C
- Get a Box, Drawer, or File for “C” Items
- Use the Swiss Cheese Method
- Don't Let the Perfect be the Enemy of the Good
  - “Okay, Ready to Write!”

# Navigating Crises

- Motivation
  - Inspiration Strikes While Working
  - Enjoy yourself
- Confidence
  - Feeling Like a Fake, Fraud, Imposter
  - Go Fishing (for Supportive Words)
- Direction
  - Getting Lost While Exploring
  - Go Back to the Question and KISS
- Organization
  - Physical Organization can be Mental Organization
  - Blueprint (Outline) or Clay (Pages)

# Staying Motivated

- At times hard to maintain positive attitude; stay motivated
  - Normal feelings:
    - Insecurity
    - Anxiety
    - Boredom
- Give yourself positive feedback for tasks that you **do** complete
  - Not negative feedback for those you don't
- Set Daily, Weekly, and Monthly Goals
- Break down project into smaller pieces for planning
  - Works on a day-to-day level as well
  - Focus on the goal of writing an outline, paragraph, page or section
  - Identify tasks that you can do in an hour or less
    - This gives a realistic daily schedule
- Organize time and try to do something every day
  - Be realistic about what you can accomplish in a day or period
- Take it one day at a time
  - Don't let doubts stop you from accomplishing something each day
  - Every task you complete gets you closer to finishing

# Things to Remember

- How to tell a good paper from a bad one?
  - Ideas vs. signatures
- Last student project not greatest work
- Just another paper, but a little bigger
- It is a *writing* project NOT a *talking* project
- Write every day