TABLE 6

Loma Linda University
Inventory of Educational Effectiveness Indicators

Category	Formal Outcomes Yes/No	Where are these learning outcomes published?	Measures/Indicators	Program Review Date
Institutional or University Level:	Yes	Student Handbook Faculty Handbook	Wholeness Inventory	External Review, 1998
General Education:	Yes	Catalog		External Review, 1998
Faculty of Religion				
Biomedical & Clinical Ethics, MA	No		Publishable paper research project Comprehensive examination	None
Biomedical & Clinical Ethics, Cert	No			None
Clinical Ministry, MA	No		Clinical evaluations Four comprehensive exams in theology and ministry Thesis or project or two publishable papers	Internal Review, 2005
Clinical Ministry, Certificate and Post B.S. Cert	No		Clinical evaluations	Internal Review, 2005

Religion and the Sciences, MA	No		Comprehensive examination Publishable paper research project	None
School of Allied Health Professions				
Clinical Laboratory Science, BS	Yes	Catalog	National certification exam. Capstone project. Clinical evaluations. Survey of graduates and employers. Employment	External Review, 2002
Clinical Laboratory Science, AS	Yes	Catalog	Capstone project. Clinical evaluations. Survey of graduates and employers. Employment	External Review, 2002
Clinical Laboratory Technician, AS	Yes	Catalog	Capstone project. Clinical evaluations. Survey of graduates and employers. Employment.	External Review, 2002
Coding Specialist, Certificate	Yes	Request for Approval	Two capstone courses Coding productivity and accuracy	External Review, 2003
Cytotechnology, BS	Yes	Catalog Accreditation Documents	National registry exam Employment Survey of graduates and employers	External Review, 2003
Cytotechnology, Certificate	Yes	Catalog Accreditation Documents	Survey of graduates and employers Employment	External Review, 2003
Diagnostic Medical Sonography, Cert	No	Catalog	Clinical evaluations, ultra sound procedure Survey of graduates, employers	External Review, 1999
Dietetic Technology, AS	Yes	Catalog Student Handbook	National registry exam Assessment of clinical and technical skills Employment and employer assessment Program completion rate	External Review, 2002
Dietetic Technology, Certificate	Yes	Catalog	Assessment of clinical and technical skills Program completion rate Employment and employer assessment	External Review, 2002
Emergency Medical Care, BS	Yes	Catalog	Portfolio Capstone senior seminar Senior project	None
Emergency Medical Care, Certificate	Yes	Catalog		None

Health Information Admin, BS	Yes	Catalog	National board or registry exam Program evaluation plan	External Review, 2005
Health Information Admin, Cert	Yes	Catalog	National board or registry exam Program evaluation plan	External Review, 2005
Medical Dosimetry, Certificate				
Medical Radiography, AS	Yes	Website Catalog Accreditation Documents	Mock registry qualifying exam. Program exit and alumni survey. Clinical evaluations. National registry exam. Portfolio. Employment	External Review,
Nuclear Medicine Technology, Cert				
Nutrition & Dietetics, BS	Yes	Catalog Student Handbook	National registry exam. Clinical evaluations Assessment of clinical and technical skills Employer assessment and employment Program completion rate	External Review, 2002
Occupational Therapy, MOT	Yes	Catalog	Capstone research course, project, colloquium. Portfolio. Clinical evaluations. National certification exam. Student, alumni, and employer surveys	External Review, 2002
Occupational Therapy Assist, AA	Yes	Catalog	Portfolio. Clinical Evaluations National certification exam Student, alumni, and employer surveys	External Review, 2000
Physical Therapist Assist, AS	Yes	Student Handbook Accreditation Documents	National licensure exam. Capstone course Professional seminar. Portfolio. Clinical assessment Graduate survey	External Review, 2002
Physical Therapy, DPT	Yes	Catalog	Practical Exam. Clinical evaluations Doctoral Project including oral presentation	None
Physical Therapy, MPT	Yes	Catalog	Thesis. Practical exams. Project on evidence-based practice. Oral presentation	None
Physical Therapy, DPTSc	Yes	Catalog	Comprehensive exam Dissertation and oral defense	None
Physician Assistant, MPA	Yes	Catalog	Clinical Evaluations. Standardized exams Research Project. National board exam	External Review, 2004
Polysomnography, Certificate				

Radiation Sciences, BS	Yes	Student Handbook	National board exam. Portfolio, Capstone seminar,	None
Radiation Therapy Technology, Cert	Yes	Catalog	Clinical evaluations. Portfolio. National certification exam. Graduate and employer surveys	None
Radiologist Assistant, BS	Yes	Catalog	Clinical evaluations. Portfolio. National certification exam. Graduate and employer surveys	None
Radiologist Assistant, Certificate	Yes	Catalog	Clinical evaluations. Portfolio. National certification exam. Graduate and employer surveys	None
Rehabilitation Science, PhD	No		Written and Oral Comprehensive Exams Dissertation including defense	None
Respiratory Care, BS	Yes	Catalog Accreditation documents	National board credentialing exam National registry exam National clinical simulation exam National self assessment exam Surveys of graduates and employers	External Review, 2000
Respiratory Care, Certificate	Yes	Catalog		External Review, 2000
Special Imaging Technology, Certificate	Yes			None
Speech-Language Pathology Assistant, AS	Yes	Catalog	Portfolio	External Review, 2004
Speech-Language Path & Audio, BS	Yes	Catalog	Portfolio	External Review, 2004
Speech-Language Path & Audio, Cert				
Speech-Language Pathology, MS	Yes	Accreditation Document	Knowledge and skills evaluation. Portfolio Comprehensive exams. National board exam Student, alumni, and employer surveys Annual employment rate	External Review, 2004
School of Dentistry				
Dental Anesthesiology, Certificate	Yes	Not Published	Mock board examination. Departmental examinations, 3 times a year. Clinical evaluations. Resident conferences	None
Dental Hygiene, BS	Yes	Catalog	National Board Examination. Regional/State Board	External

			Examination. Portfolio project Senior, Alumni, Employer surveys	Review 2002
Dentistry, DDS	Yes	Catalog	National board exam, parts 1 and 2. Western regional board exam. California board exam. Clinical mock board exam. Clinical competency exams	External Review, 2002
Dentistry (International), DDS	Yes	Catalog	National board exam, parts 1 and 2. Western regional board exam. California board exam. Clinical mock board exam. Clinical competency exams	External Review, 2002
Endodontics, Certificate	Yes	Program Syllabi	Board case portfolio. Clinical evaluations. Research project and publishable paper. Supervised student teaching. Exit interview. Alumni survey	External Review, 2002
Endodontics, MS	Yes	Program Syllabi	Board case portfolio. Clinical evaluations Research project and publishable paper. Supervised student teaching. Exit interview. Alumni survey	External Review, 2002
Implant Dentistry, Certificate	Yes	Program Syllabi	Patient presentation. Clinical evaluations. Credentialing participation. Supervised student teaching. Exit interview. Alumni survey	Internal Review, 2000
Implant Dentistry, MS	Yes	Program Syllabi	Patient presentation. Clinical evaluations. Credentialing participation. Supervised student teaching. Exit interview. Alumni survey	Internal Review, 2000
Oral & Maxillofacial Surgery, Certificate	Yes	Internal and Accreditation Documents	OMSITE exam in basic sciences. Board certification exam. Clinical Evaluations. Alumni survey. Research presentations. ADA survey	External Review, 2002
Oral & Maxillofacial Surgery, MS	Yes	Internal and Accreditation Documents	OMSITE exam in basic sciences. Board certification exam. Clinical Evaluations. Alumni survey. Research presentations. ADA survey	External Review, 2002
Ortho/Dentofacial Orthopedics, Cert	Yes	Internal and Accreditation Documents	National board exam. Patient case presentations. Clinical Evaluations. Portfolios. AAO exam. Research project. Exit interview. Alumni survey	External Review, 2003
Ortho/Dentofacial Orthopedics, MS	Yes	Internal and Accreditation Documents	National board exam. Patient case presentations Clinical Evaluations. Portfolios. AAO exam Thesis. Exit interview. Alumni survey	External Review, 2003
Pediatric Dentistry, Certificate	Yes	Internal and Accreditation Documents	National board exam. Patient presentations. Oral examination. In-service examination Clinical evaluations	External Review, 2002
Pediatric Dentistry, MS	Yes	Internal and	National board exam. Thesis. Patient presentations.	External

		Accreditation Documents	Oral examination. In-service examination Clinical evaluations	Review, 2002
Periodontics, Certificate	Yes	Resident Contract	In-service exam. Patient presentations. Clinical evaluations. National board exam. Exit survey. Alumni survey	External Review, 2002
Periodontics, MS	Yes	Resident Contract	In-service exam. Patient presentations. Clinical evaluations. National board exam. Exit survey. Alumni survey	External Review, 2002
Prosthodontics, Certificate	Yes	Not Published	Annual mock board exam. Clinical evaluations. Chart review. Exit survey. Alumni survey	External Review, 2002
Prosthodontics, MS	Yes	Not Published	Annual mock board exam. Clinical evaluations. Chart review. Exit survey.Alumni survey	External Review, 2002
School of Medicine				
Anatomy, MS	No		Written and oral comprehensive exams. Thesis or dissertation and defense. Publication in peer reviewed journal. Post doctoral employment. Time to completion	Internal Review, 2006
Anatomy, PhD	No		Written and oral comprehensive exams. Thesis or dissertation and defense. Publication in peer reviewed journal. Post doctoral employment. Time to completion	Internal Review, 2006
Biochemistry, MS	No		Written and oral comprehensive exams. Thesis or dissertation and defense. Publication in peer reviewed journal. Post doctoral employment. Time to completion	Internal Review, 2006
Biochemistry, PhD	No		Written and oral comprehensive exams. Thesis or dissertation and defense. Publication in peer reviewed journal. Post doctoral employment. Time to completion	Internal Review, 2006
Biomedical Sciences, Certificate	No			None
Medical Scientist, PhD	No		Written and oral comprehensive exams. Thesis or dissertation and defense. Publication in peer reviewed journal. Post doctoral employment. Time to completion	Internal Review, 2006
Medicine, MD	Yes	Website Student Orientation Packets	NBME subject exams in basic science. Clinical evaluations. Case conferences. OSCE evaluation and teaching. USMLE. National board exams. Senior SP exams. Student peer and self assessment and surveys.	External Review, 2001

			EBM-IS preceptor assessment. Research paper	
Microbiology/Molecular Genetics, MS	No		Written and oral comprehensive exams. Thesis or dissertation and defense. Publication in peer reviewed journal. Post doctoral employment. Time to completion	Internal Review, 2006
Microbiology/Molecular Genetics, PhD	No		Written and oral comprehensive exams. Thesis or dissertation and defense. Publication in peer reviewed journal. Post doctoral employment. Time to completion	Internal Review, 2006
Pharmacology, PhD	No		Written and oral comprehensive exams. Thesis or dissertation and defense. Publication in peer reviewed journal. Post doctoral employment. Time to completion	Internal Review, 2006
Physiology, MS	No		Written and oral comprehensive exams. Thesis or dissertation and defense. Publication in peer reviewed journal. Post doctoral employment. Time to completion	Internal Review, 2006
Physiology, PhD	No		Written and oral comprehensive exams. Thesis or dissertation and defense. Publication in peer reviewed journal. Post doctoral employment.Time to completion	Internal Review, 2006
School of Nursing				
Nursing, Certificate	Yes	Catalog	Clinical evaluations Exit interview National certification exam Clinical agency survey Alumni survey Wholeness inventory	External Review, 2003
Nursing, AS	Yes	Catalog	National board exam. Undergraduate nursing education exit assessment, Wholeness inventory. Clinical evaluations. Student and alumni surveys.	
Nursing, BS	Yes	Catalog	National board exam. Undergraduate nursing education exit assessment. Wholeness inventory. Self-fitness inventory. Clinical evaluations. Senior and alumni surveys	External Review, 2003
Nursing, MS	Yes	Catalog	Comprehensive Exam. Research based project, evidence based nursing. National Certification exams. Clinical evaluations. Senior and Alumni surveys. Wholeness inventory	External Review, 2003
Nursing, PhD	Yes	Catalog	Comprehensive oral exam. Dissertation. Graduate exit	None

			interview. Wholeness inventory. Alumni survey. Clinical evaluations.	
School of Pharmacy				
Pharmacy, Pharm D	Yes	Catalog	Clinical evaluations Competency self-assessment National board exam	External Review, 2006
School of Public Health				
Advanced Biostatistics, Certificate	Yes	Catalog	Research presentation, written and oral Course level indicators	External Review, 2002
Advanced Epidemiology, Certificate	Yes	Catalog	Oral exam Research presentation, written and oral Course level indicators	External Review, 2002
Basic Biostatistics, Certificate	Yes	Catalog	Course level indicators	External Review, 2002
Basic Epidemiology, Certificate	Yes	Catalog	Course level indicators	External Review, 2002
Epidemiology Research Methods, Cert	Yes	Catalog	Course level indicators Grant proposal	External Review, 2002
Biomedical Data Management, BSPH	Yes	Catalog Web Site	Comprehensive exam. Senior project and research paper.	External Review, 2002
Biostatistics, MPH	Yes	Catalog	Comprehensive exam Research presentation, written and oral	External Review, 2002
Biostatistics, MSPH	Yes	Catalog	Comprehensive exam Thesis including defense	External Review, 2002
Community Wellness, MPH				
Environmental & Occup Health, MPH				
Epidemiology, MPH	Yes	Catalog	Oral exam	External

			Research presentation, written and oral	Review, 2002
Epidemiology, DrPH	Yes	Website Catalog	Comprehensive exam Capstone seminar Dissertation Research and teaching assistance	External Review, 2002
Global Health, MPH	Yes	Catalog	Comprehensive exam Presentation at professional meeting Field project report	External Review, 2002
Global Health & Dev, DrPH				
Health Administration, MPH	Yes	Catalog	Capstone colloquia. Professional association membership. Graduate research project, written Professional evaluation	External Review, 2002
Health Administration, MHA	Yes	Catalog	Capstone colloquia. Professional association membership. Graduate research project, written Professional evaluation	External Review, 2002
Health Care Administration, BSPH	Yes	Catalog	Capstone course, senior project. Wholeness inventory Student survey	Internal Review, 2003
Health Care Administration, MBA (includes international MBA)	Yes	Catalog	Capstone colloquia. Professional association membership. Graduate research project, written Professional evaluation	Internal Review, 2004
Health Education, MPH	Yes	Catalog	Comprehensive exam. Field evaluation Exit survey. Portfolio	External Review, 2002
Health Education, DrPH	Yes	Website Catalog Handout	Comprehensive exam. Qualifying exam Dissertation	External Reviews, 2002
Health Geographics, BSPH	Yes	Website Brochures Catalog	Senior project	External Review, 2002
Health Geoinformatics, Certificate	Yes	Website Brochures	None	External Review, 2002
Health Services Research, MPH	Yes	Catalog	Oral exam Research presentation, written and oral	External Review,

				2002
Humanitarian Assistance, Certificate	Yes	Catalog	Comprehensive Exam Presentation at professional meetings	External Review, 2002
Lifestyle Intervention, Certificate	Yes	Catalog		External Review, 2002
Maternal, Child, and Family Health, MPH	Yes	Catalog	Field evaluation report Exit survey Portfolio	External Review, 2002
Nutrition, MS	Yes	Catalog	Comprehensive exam Publication in peer-reviewed journal Thesis	Internal Review, 2005
Nutrition, MPH	Yes	Website Student Handbook Catalog	Comprehensive exam. Field evaluation report National registry exam. Presentation at professional meetings. Employment within 12 months of graduation	External Review, 2002
Nutrition, DrPH	Yes	Website Student Handbook Catalog	Comprehensive exam .National registry exam. Thesis. Publication in peer-reviewed journal Employment within 12 months of graduation	External Review, 2002
Preventive Care, DrPH	Yes	Catalog	Comprehensive exam. Qualifying exam. Dissertation Field evaluations.	External Review, 2002
Public Health Practice, MPH	Yes	Catalog	Field evaluation report Exit survey	External Review, 2002
Public Health Practice, MPH off-campus	Yes	Catalog	Field evaluation report Exit survey	External Review, 2002
Reproductive Health, Certificate	Yes	Catalog		External Review, 2002
Tobacco Control Methods, Certificate	Yes	Catalog	Course level indicators	External Review, 2002

Wellness Management, BSPH,	Yes	Catalog	Internship evaluations Senior capstone project and presentation Wellness program laboratory	External Review, 2002
School of Science and Technology				
Biology, MS	No		Thesis and defense. Published papers Comprehensive exam, written	None
Biology, PhD	No		Comprehensive exam, written and oral. Dissertation and defense. Published papers	None
Case Management, Certificate	No			None
Child Life Specialist, Certificate	Yes	Website Brochures	Clinical evaluations Final project Certification exam	Internal Review, 2004
Child Life Specialist, MS	Yes	Website Brochures	Comprehensive exam. Clinical evaluations. Final project. Certification exam	Internal Review, 2004
Chinese Studies, Certificate	No			None
Clinical Mediation, Certificate	No			None
Clinical Social Work, PhD	No		Comprehensive Exam. Dissertation including proposal, defense of proposal, and defense of dissertation Institutional Review Board approval	None
Counseling, MS	Yes	Student Handbook Catalog	Comprehensive Exam. Clinical Experience and Evaluations. Exit program evaluation California Basic Educational Skills Test	External Review, 2004
Criminal Justice, MS	No			Internal Review 2005
Drug and Alcohol Counseling, Certificate	No			None
Earth Science, PhD	No		Comprehensive exam, written and oral. Dissertation, defense. Published papers	None
Environmental and Earth Systems Science, BS	Yes	New program proposal		None
Family Counseling, Certificate	No			None
Family Life Education, Certificate	No		Clinical evaluations. Membership in professional organization. National certification eligibility	None
Family Studies, MA	Yes	Website	Comprehensive exam. Exit program evaluation	None

		Catalog Brochures	Professional association membership	
Family Studies, PhD	Yes	Website Catalog Brochure	Qualifying Exam Dissertation Exit program evaluation	None
Forensic Science, Certificate	No			None
Geology, BS	No			None
Geology, MS	No		Oral comprehensive exam. Thesis, presentation, and defense.Published papers	None
Gerontology, MS	No			Internal Review, 2005
Marital and Family Therapy, MS	Yes	Student Handbook Catalog	Comprehensive written and oral Exams. Clinical evaluations. Exit program evaluation State licensure exam	External Review, 2005
Marital and Family Therapy, DMFT	Yes	Website Student Handbook Clinical Handbook	Clinical evaluations. Qualifying clinical demonstration Qualifying exam. Doctoral project and oral defense. Exit program evaluation. Exit interview. Licensure exam. Alumni survey	External Review, 2005
Marital and Family Therapy, PhD	Yes	Website Student Handbook Clinical Handbook	Clinical evaluations. Qualifying clinical demonstration Qualifying exam. Dissertation and oral defense. Exit program evaluation. Exit interview. Licensure exam Alumni survey	External Review, 2005
Natural Sciences, MS	Yes	Program proposal	Comprehensive exam, written. California Subject Exam for Teachers. Capstone course, research report, oral defense. Survey of graduates	None
Program Evaluation & Research, Cert	No			None
Psychology, MA	Yes	Catalog	Thesis Presentation at professional meeting Acceptance into a doctoral program	Internal Review, 2005
Psychology, PsyD	Yes	Student Handbook Accreditation Documents	Clinical evaluations. Comprehensive Internship. Readiness exam. Doctoral project National licensure exam Employment in a clinical setting	External Review, 2001

Clinical Psychology, PhD	Yes	Student Handbook Accreditation Documents	Clinical evaluations. Comprehensive exam. Clinical proficiency exam. Dissertation. National licensure exam. Employment in a clinical setting or faculty position	External Review, 2000
Experimental Psychology, PhD	Yes	Catalog	MA Thesis. Dissertation. Presentation at professional meeting. Publication Employment in academic or research setting	Internal Review, 2005
Public Administration, DPA	No		Comprehensive Exam Doctoral Project including defense	None
School Counseling, Certificate	Yes	Student Handbook Catalog	Comprehensive exam. Clinical experience and evaluations. Exit program evaluation California Basic Educational Skills Test	External Review, 2004
Social Policy/Social Research, PhD	No		Comprehensive Exam.. Applied Research Product. Dissertation	None
Social Work, MSW	Yes	Internal and Accreditation Documents	Qualifying examination Wholeness Portfolio Student, Alumni, Employer Surveys	External Review, 1999
Spanish Studies, Certificate	Yes	Catalog	Service project. Language immersion Competency exam	None
Interdisciplinary Studies				
Biomedical Sciences, Certificate	No			None
Health Professions Education, Certificate	Yes	Marketing Brochures Catalog		None
Health Professions Education, MS	Yes	Marketing Brochures Catalog		None